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I have read the following and certify that this curriculum vitae is a current and accurate statement of my professional record.

Signature:  Date: March 13, 2026

1. Personal Information

Academic Appointments at UMD

07/2017–Present **University of Maryland**, College Park, MD
Associate Professor (2020–), Assistant Professor (2017–2020), College of Information
Affiliate Associate (2020–), Assistant Professor (2018–2020), Department of Computer Science

Administrative Appointments at UMD

2024–Present Undergraduate Research Director, College of Information
2020–2023 Doctoral Program Director, College of Information

Other Employment

09/2023 – 06/2024 **Seoul National University,** Seoul, Korea
Visiting Professor, Department of Computer Science and Engineering

08/2014 – 06/2017 **The Pennsylvania State University**, University Park, PA
Assistant Professor, College of Information Sciences and Technology (IST)

09/2008 – 08/2014 **University of Washington**, Seattle, Washington
Graduate Research Assistant & Graduate Teaching Assistant, Information School

06/2012 – 09/2012 **Microsoft Research,** Redmond, Washington
Research Intern

06/2010 – 09/2010 **Intel Lab,** Seattle, Washington
Research Intern

07/2008 – 09/2008 **Google**, Kirkland, Washington
User Experience Design Intern

06/2007 – 08/2007 **Experience Design and Prototyping Lab (EDPL), Motorola Labs**, Schaumburg, Illinois
Engineering Intern

Educational Background

2008–2014 **University of Washington,** Seattle, WA
PhD in Information Science, Information School
Thesis: *Designing self-monitoring technology to promote data capture and reflection*

2006–2008 **University of California,** Berkeley, CA
Master of Information Management and Systems, School of Information

2001–2005 **Korea Advanced Institute of Science and Technology (KAIST),** Daejeon, Korea
Bachelor of Science in Industrial Design, Department of Industrial Design

2. Research, Scholarly, Creative, and Professional Activities

- Author Notation: In all publications, my name is in **bold**. Students or postdoctoral co-authors are underlined. Those under my direct supervision (i.e., for whom I served as advisor or co-advisor or actively supervised in a specific project related to the publication) are marked with an asterisk (*). The senior contributing author (typically the faculty advisor) is often listed last on student-led papers.
- In the fields of human-computer interaction, flagship conference papers (e.g., CHI, CSCW, UbiComp) often count as having equal or higher prominence to journal publications. These conference papers are strictly peer-reviewed with at least three external reviewers and have acceptance rates of 30% or lower. For more information on conference selectivity in this field, see https://dl.acm.org/citation.cfm?id=1743546.1743569.
- For conferences, the acceptance rate is shown in [brackets], when available.
- For journals, the most recent impact factor at the time of publication is shown in [brackets], when available.

Books

Books Edited

b1 Lee, B., Dachselt, R., Isenberg, P., & **Choe, E.K.** (Eds.). (2021). *Mobile Data Visualization*. CRC Press.

Chapters

Books

bc3 **Choe, E.K.**, Klasnja, P., & Pratt, W. (2021). mHealth and Applications. In Shortliffe, E., & Cimino, J.J. (Eds.), *Biomedical Informatics* (pp. 637–666). Springer, London.

bc2 Blascheck, T., Bentley, F., **Choe, E.K.**, Horak, T., & Isenberg, P. (2021). Characterizing Glanceable Visualizations: From Perception to Behavior Change. In Lee, B., Dachselt, R., Isenberg, P., & **Choe, E.K.** (Eds.), *Mobile Data Visualization* (pp. 151–176). CRC Press.

bc1 Bentley, F., **Choe, E.K.**, Mamykina, L., Stasko, J., & Irani, P. (2021). Evaluating Mobile Visualizations. In Lee, B., Dachselt, R., Isenberg, P., & **Choe, E.K.** (Eds.), *Mobile Data Visualization* (pp. 177–208). CRC Press.

Refereed Journals

Refereed Journal Articles (Rigorously Peer Reviewed)

j33 Wang, Y.*, Khayami, H., Lee, B., Lazar, A., Kacorri, H., & **Choe, E.K.** (2025). Enabling Older Adults to Provide High-Quality Activity Labels: Unpacking Accuracy, Precision, and Granularity in Activity Labeling. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, 24 pages. [Impact Factor: 4.5 (2024)]

j32 Li, M.* & **Choe, E.K.** (2025). Identifying Design Opportunities for Behavior Displacement for Intervening Sedentary Time Among Older Adults. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 9*(3), 1–23. [Impact Factor: 4.5 (2024)]

j31 Zheng, J.*, Seo, S., & **Choe, E.K.** (2025). From Awareness to Action: Ambient Display and Customizable Attention Signals for Self-regulated Smartphone Usage. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 9*(3), 1–30. [Impact Factor: 4.5 (2024)]

j30 Khayami, H., Wang, L.*, Kim, Y.-H., Lee, B., Conroy, D.E., Lazar, A., **Choe, E.K.**, & Kacorri, H. (2025). From Verbal Reports to Personalized Activity Trackers: Understanding the Challenges of Ground Truth Data Collection with Older Adults in the Wild. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 9*(2), 1–33. [Impact Factor: 4.5 (2024)]

j29 Lee, J.*, Lee, S.I., & **Choe, E.K.** (2024). GoalTrack: Supporting Personalized Goal-Setting in Stroke Rehabilitation with Multimodal Activity Journaling. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 8*(4), 1–29. [Impact Factor: 4.5 (2024)]

j28 Lee, J.G.W.*, Lee, B., Choi, S., Seo, J., & **Choe, E.K.** (2024). Identify, Adapt, Persist: The Journey of Blind Individuals with Personal Health Technologies. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 8*(2), 1–21. [Impact Factor: 4.5 (2024)]

j27 Rey, B., Lee, B., **Choe, E.K.**, & Irani, P. (2024). Databiting: Lightweight, Transient, and Insight Rich Exploration of Personal Data. *IEEE Computer Graphics and Applications (CG&A), 44*(2), 65–72. [Impact Factor: 1.4 (2024)]

j26 Lee, J.G.W.*, Lee, K.*, Lee, B., Choi, S., Seo, J., & **Choe, E.K.** (2023). Personal Health Data Tracking by Blind and Low-Vision People: A Survey Study. *Journal of Medical Internet Research (JMIR)*, e43917 (pp 1–15). [Impact Factor: 7.4 (2023)]

j25 Rey, B., Lee, B., **Choe, E.K.**, & Irani, P. (2023). Investigating In-Situ Personal Health Data Queries on Smartwatches. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 6*(4), 1–19. [Impact Factor: 3.6 (2023)]

j24 Luo, Y.*, Lee, B., Kim, Y-H.*, & **Choe, E.K.** (2022). NoteWordy: Investigating Touch and Speech Input on Smartphones for Personal Data Capture. *Proceedings of the ACM (PACM) on Human-Computer Interaction, 6*(ISS), 568–591. [Acceptance rate 25.4%] **Best Paper Honorable Mention Award.**

j23 Gao, G., Zheng, J., **Choe, E.K.**, & Yamashita, N. (2022). Taking a Language Detour: How International Migrants Speaking a Minority Language Seek COVID-Related Information in Their Host Countries. *Proceedings of the ACM (PACM) on Human-Computer Interaction, 6*(CSCW2), 1–32.

j22 Jung, H.T.*, Kim, Y.*, Lee, J., Lee, S.I., & **Choe, E.K.** (2022). Envisioning the Use of In-Situ Arm Movement Data in Stroke Rehabilitation: Stroke Survivors' and Occupational Therapists' Perspectives. *PLoS ONE, 17*(10): e0274142 (pp 1–25). [Impact Factor: 3.7 (2022)]

j21 Orth, R.D., Hur, J., Jacome, A.M., Savage, C.L.G., Grogans, S.E., Kim, Y-H.*, **Choe, E.K.**, Shackman, A.J., & Blanchard, J.J. (2022). Understanding the consequences of moment-by-moment fluctuations in mood and social experience for paranoid ideation in psychotic disorders. *Schizophrenia Bulletin Open, 3*(1), sgac064 (pp 1–10).

j20 Oh, C.Y.*, Luo, Y.*, St Jean, B., & **Choe, E.K.** (2022). Patients Waiting for Cues: Information Asymmetries and Challenges in Sharing Patient-Generated Data in the Clinic. *Proceedings of the ACM (PACM) on Human-Computer Interaction, 6*(CSCW1), 1–23.

j19 Cho, H.*, Choi, D., Kim, D., Kang, W.J., **Choe, E.K.**, & Lee, S.J. (2021). Reflect, not Regret: Understanding Regretful Smartphone Use with App Feature-Level Analysis. *Proceedings of the ACM (PACM) on Human-Computer Interaction, 5*(CSCW2), 1–36. **Best Paper Award & Methods Recognition.**

j18 Taylor, C.O., Flaks-Manov, N., Ramesh, S.*, & **Choe, E.K.** (2021). Willingness to Share Wearable Device Data for Research Among Mechanical Turk Workers: Web-Based Survey Study. *Journal of Medical Internet Research (JMIR), 23*(10), e19789 (pp 1–11). [Impact Factor: 5.43 (2021)]

j17 Mascheroni, A., **Choe, E.K.**, Luo, Y.*, Marazza, M., Ferlito, C., Caverzasio, S., Mezzanotte, F., Kaelin-Lang, A., Faraci, F., Puiatti, A., & Ratti, P.L. (2021). The SleepFit Tablet Application for Home-Based Clinical Data Collection in Parkinson Disease: User-Centric Development and Usability Study. *Journal of Medical Internet Research (JMIR) mHealth and uHealth, 9*(6), e16304 (pp 1–18). [Impact Factor: 4.77 (2021)]

j16 Luo, Y.*, Oh, C.Y.*, St. Jean B., & **Choe E.K.** (2020). Investigating the Interrelationships Between Patients' Data Tracking Practices, Data Sharing Practices, and their Health Literacy: An Onsite Survey Study. *Journal of Medical Internet Research (JMIR), 22*(12), e18937 (pp 1–16). [Impact Factor: 5.03 (2020)]

j15 Lee, B., **Choe, E.K.**, Isenberg, P., Marriott, K., & Stasko, J. (2020). Reaching Broader Audiences with Data Visualization. *IEEE Computer Graphics and Applications (CG&A), Visualization Viewpoints, 40*(2), 82–90. [Impact Factor: 2.088 (2020)]

j14 Sandbulte, J.*, Beck, J., **Choe, E.K.**, & Carroll, J.M. (2020). Inciting Incidents: How Can We Motivate Family Conversations about Health? *International Journal of Human-Computer Interaction (IJHCI), 36*(12), 1122–1135. [Impact Factor: 3.35 (2020)]

j13 Kim, Y.*, Jung, H.*, Park, J., Kim, Y., Ramasarma, N., Bonato, P., **Choe, E.K.**, & Lee, S.I. (2019). Towards the Design of a Ring Sensor-based mHealth System to Achieve Optimal Motor Function in Stroke Survivors. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 3*(4), 1–26.

j12 Ratti, P.L., Faraci, F., Hackethal, S., Mascheroni, A., Ferlito, C., Caverzasio, S., Amato, N., **Choe, E.K.**, Luo, Y.*, Nunes-Ferreira, P.E., Galati, S. Puiatti, A., & Kaelin-Lang, A. (2019). A New Prospective, Home-Based Monitoring of Motor Symptoms in Parkinson's Disease. *Journal of Parkinson's Disease, 9*(4), 803–809. [Impact Factor: 5.178 (2019)]

j11 Brehmer, M.*, Lee, B., Isenberg, P., & **Choe, E.K.** (2019). A Comparative Evaluation of Animation and Small Multiples for Trend Visualization on Mobile Phones. *IEEE Transactions on Visualization & Computer Graphics (InfoVis 2019), 26*(1), 364–374. [Impact Factor: 4.558 (2019)]

j10 **Choe, E.K.**, Duarte, M.E., Suh, H., Pratt, W., & Kientz, J. (2019). Breaking Bad News: Insights for the Design of Consumer Health Technologies. *Journal of Medical Internet Research Human Factors (JMIR HF), 6*(2), e8885 (pp 1–19).

j9 Kim, Y.*, Lee, B., & **Choe, E.K.** (2019). Investigating Data Accessibility of Personal Health Apps. *Journal of the American Medical Informatics Association (JAMIA), 26*(5), 412–419. [Impact Factor: 4.29 (2019)]

j8 Lee, S.I., Liu, X., Rajan, S., Ramasarma, N., **Choe, E.K.**, & Bonato, P. (2019). A Novel Upper-limb Function Measure Derived from Finger-worn Sensor Data Collected in a Free-living Setting. *PLoS ONE, 14*(3), e0212484 (pp 1–18). [Impact Factor: 2.74 (2019)]

j7 Brehmer, M.*, Lee, B., Isenberg, P., & **Choe, E.K.** (2018). Visualizing Ranges over Time on Mobile Phones: A Task-Based Crowdsourced Evaluation. *IEEE Transactions on Visualization & Computer Graphics (InfoVis 2018), 25*(1), 619–629. [Acceptance rate 25.1%]

j6 **Choe, E.K.**, Lee, B., Andersen, T.O., Wilcox, L., & Fitzpatrick, G. (2018). Harnessing the Power of Patient-Generated Data. *IEEE Pervasive Computing, 17*(2), 50–56. [Impact Factor: 3.81 (2018)]

j5 Kim, Y-H.*, Jeon, J.H.*, Lee, B., **Choe, E.K.**, & Seo, J. (2017). OmniTrack: A Flexible Self-Tracking Approach Leveraging Semi-Automated Tracking. *In Proceedings of the ACM (PACM) on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 1*(3), 1–28.

j4 **Choe, E.K.**, Abdullah, S., Rabbi, M., Thomaz, E., Epstein, D.A., Kay, M., Cordeiro, F., Abowd, G.D., Choudhury, T., Fogarty, J., Lee, B., Matthews, M., & Kientz. J.A. (2017). Semi-Automated Tracking: A Balanced Approach for Self-Monitoring Applications. *IEEE Pervasive Computing, 16*(1), 74–84. [Impact Factor: 3.02 (2017)]

j3 Thudt, A., Lee, B., **Choe, E.K.**, & Carpendale, S. (2017). Expanding Research Methods for a Realistic Understanding of Personal Visualization. *IEEE Computer Graphics and Applications (CG&A), Visualization Viewpoints, 37*(2), 12–18. [Impact Factor: 1.64 (2017)]

j2 Ko, P.T., Kientz, J.A., **Choe, E.K.**, Kay, M., Landis, C.A., & Watson, N.F. (2015). Consumer Sleep Technologies: A Review of the Landscape. *Journal of Clinical Sleep Medicine, 11*(12), 1455–1461. [Impact Factor: 2.71 (2015)]

j1 **Choe, E.K.**, Lee, B., & Schraefel, m.c. (2015). Characterizing Visualization Insights from Quantified-Selfers' Personal Data Presentations. *IEEE Computer Graphics and Applications (CG&A), 35*(4), 28–37. [Impact Factor: 1.203 (2015)]

Perspectives, Opinions, and Letters

p1 **Choe, E.K.** & Lee, B. (2019). Toward Supporting Personalized Tracking Experience in Healthcare. *ACM Interactions, 27*(1), 84–87.

Published Conference Proceedings

Refereed Conference Proceedings (Rigorously Peer Reviewed & Archival Publications)

c38 Hu, R., **Choe, E.K.**, & Lazar, A. (2026). Looking Beyond the Screen to Study the Technology Use of Older People Experiencing Cognitive Concerns. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '26)* (pp. 1–18).

c37 Moon, J.*, Lee, S, Kim, Y., Go, J., Ku, H.M., Jung Y., Hwang, S., Lee, B., Lee, Y.S., Lee, H-K., Lee, K., & **Choe, E.K.** (2025). FluidTrack: Investigating Child-Parent Collaborative Tracking for Pediatric Voiding Dysfunction Management. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25)* (pp. 1–18). [Acceptance rate 24.9%] **Best Paper Award.**

c36 Short., A., Su, N.M., Hu, R., **Choe, E.K.**, Kacorri, H., Danilovich, M., Conroy, D.E., Jette, S., Barnett, B., & Lazar, A. (2025). Tracking and its Potential for Older Adults with Memory Concerns. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '25)* (pp. 1–15). [Acceptance rate 24.9%] **Best Paper Award.**

c35 Wang, Y.*, Li, M.*, Kim, Y-H., Lee, B., Danilovich, M., Lazar, A., Conroy, D.E., Kacorri, H., & **Choe, E.K.** (2024). Redefining Activity Tracking Through Older Adults' Reflections on Meaningful Activities. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '24)* (pp. 1–15). [Acceptance rate 26.4%]

c34 Perera, M., Lee, B., **Choe, E.K.**, & Marriott, K. (2024). Visual Cues for Data Analysis Features Amplify Challenges for Blind Spreadsheet Users. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '24)* (pp. 1–16). [Acceptance rate 26.4%]

c33 Lee, J.G.W.*, Lee, B., & **Choe, E.K.** (2023). Decorative, Evocative, and Uncanny: Reactions on Ambient-to-Disruptive Health Notifications via Plant-Mimicking Shape-Changing Interfaces. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '23)* (pp. 1–16). [Acceptance rate 27.6%]

c32 Kim, Y-H.*, Chou, D.*, Lee, B., Danilovich, M., Lazar, A., Conroy, D.E., Kacorri, H., & **Choe, E.K.** (2022). MyMove: Facilitating Older Adults to Collect In-Situ Activity Labels on a Smartwatch with Speech. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '22)* (pp. 1–21). [Acceptance rate 24.7%]

c31 Luo, Y.*, Kim, Y.H.*, Lee, B., Hassan, N., & **Choe, E.K.** (2021). FoodScrap: Promoting Rich Data Capture and Reflective Food Journaling Through Speech Input. *In Proceedings of the ACM Conference on Designing Interactive Systems (DIS '21) (*pp. 606–618). [Acceptance rate 24.5%]

c30 Kim, Y-H.*, Lee, B., Srinivasan, A., & **Choe, E.K.** (2021). Data@Hand: Fostering Visual Exploration of Personal Data on Smartphones Leveraging Speech and Touch Interaction. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '21)* (pp. 1–17). [Acceptance rate 26.3%] **Best Paper Honorable Mention Award.**

c29 Chopra, S.*, Zehrung, R.*, Shanmugam, T.A.*, & **Choe, E.K.** (2021). Living with Uncertainty and Stigma: Self-Experimentation and Support-Seeking around Polycystic Ovary Syndrome. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '21)* (pp. 1–18). [Acceptance rate 26.3%]

c28 Sandbulte, J., **Choe, E.K.**, Carroll, J.M. (2020). Towards Family-Centered Health Technologies that Support Distributed Families on Sustainable Healthy Practices Together. *In Proceedings of the Association for Information Science and Technology (ASIS&T '20), 57(1), e274* (pp. 1–11).

c27 Luo, Y.*, Lee, B., & **Choe, E.K.** (2020). TandemTrack: Shaping Consistent Exercise Experience by Complementing a Mobile App with a Smart Speaker. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '20)* (pp. 1–13). [Acceptance rate 24.3%]

c26 **Choe, E.K.**, Sakamoto, Y., Fatmi, Y., Lee, B., Hurter, C., Haghshenas, A., & Irani, P. (2019). Persuasive Data Videos: Investigating Persuasive Self-Tracking Feedback with Augmented Data Videos. *In Proceedings of the American Medical Informatics Association (AMIA '19)*, 295–304. [Acceptance rate 34%] **Distinguished Paper Award Nomination.**

c25 Luo, Y.*, Liu, P.*, & **Choe, E.K.** (2019). Co-Designing Food Trackers with Dietitians: Identifying Design Opportunities for Food Tracker Customization. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19)* (pp. 1–13). [Acceptance rate 23.8%]

c24 Kim, Y-H.*, **Choe, E.K.**, Lee, B., & Seo, J. (2019). Understanding Personal Productivity: How Knowledge Workers Define, Evaluate, and Reflect on Their Productivity. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '19)* (pp. 1–12). [Acceptance rate 23.8%]

c23 Binda, J.*, Beck, J., **Choe, E.K.**, & Carroll, J.M. (2019). Turning Points: Motivating Intergenerational Families to Engage on Sustainable Health Information. *In Proceedings of the International Conference on Information (iConference '19)*, 741–753. [Acceptance rate 34%]

c22 [1]Blair, J.*, Luo, Y.*, Ma, N.F.*, Lee, S.*, & **Choe, E.K.** (2018). OneNote Meal: A Photo-Based Diary Study for Reflective Meal Tracking. *In Proceedings of the American Medical Informatics Association (AMIA '18)*, 252–261.

c21 Binda, J.*, Yuan, C.W., Cope, N.*, Park, H.*, **Choe, E.K.**, & Carroll, J.M. (2018). Supporting Effective Sharing of Health Information among Intergenerational Family Members. *In Proceedings of the EAI International*

[1] Blair, J. and Luo, Y. contributed equally.

Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '18), 148–157. [Acceptance rate 24%]

c20 Luo, Y.*, Lee, B., Wohn, D.Y., Rebar, A.L., Conroy, D.E., & **Choe, E.K.** (2018). Time for Break: Understanding Information Workers' Sedentary Behavior Through a Break Prompting System. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '18)* (pp. 1–14). [Acceptance rate 26%]

c19 Hiniker, A., Lee, B., Sobel, K., & **Choe, E.K.** (2017). Plan and Play: Supporting Intentional Media Use in Early Childhood. *In Proceedings of the ACM Conference on Interaction, Design, and Children (IDC '17),* 85–95. [Acceptance rate 21%] **Best Paper Award Nomination (top 3 papers).**

c18 **Choe, E.K.**, Lee, B., Zhu, H.*, Riche, N.H., Baur, D. (2017). Understanding Self-Reflection: How People Reflect on Personal Data Through Visual Data Exploration. *In Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17)*, 173–182. [Acceptance rate 24%]

c17 Kang, J.*, Binda, J.*, Agarwal, P.*, Saconi, B.*, & **Choe, E.K.** (2017). Fostering User Engagement: Improving Sense of Identity through Cosmetic Customization in Wearable Trackers. *In Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17)*, 11–20. [Acceptance rate 24%]

c16 Zhu, H.*, Luo, Y.*, & **Choe, E.K.** (2017). Making Space for the Quality Care: Opportunities for Technology in Cognitive Behavioral Therapy for Insomnia. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '17)*, 5773–5786. [Acceptance rate 25%]

c15 Ren, D.*, Brehmer, M., Lee, B., Höllerer, T., & **Choe, E.K.** (2017). ChartAccent: Annotation for Data-Driven Storytelling. *In Proceedings of IEEE Pacific Visualization Symposium (PacificVis '17)*, 230–239. [Acceptance rate 29.3%]

c14 Zhu, H.*, Colgan, J., Reddy, M., & **Choe, E.K.** (2016). Sharing Patient-Generated Data in Clinical Practices: An Interview Study. *In Proceedings of the American Medical Informatics Association (AMIA '16),* 1303–1312. **Distinguished Paper Award Nomination.**

c13 Kim, Y-H.*, Jeon, J.H.*, **Choe, E.K.**, Lee, B., Kim, K., & Seo, J. (2016). TimeAware: Leveraging Framing Effects to Enhance Personal Productivity. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '16)*, 272–283. [Acceptance rate 23%]

c12 **Choe, E.K.**, Lee, B., Kay, M., Pratt, W., & Kientz, J.A. (2015). SleepTight: Low-burden, Self-monitoring Technology for Capturing and Reflecting on Sleep Behaviors. *In Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '15)*, 121–132. [Acceptance rate 23%]

c11 **Choe, E.K.**, Lee, N.B., Lee, B., Pratt, W., & Kientz, J.A. (2014). Understanding Quantified-Selfers' Practices in Collecting and Exploring Personal Data. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '14)*, 1143–1152. [Acceptance rate 22.8%] **Honorable Mention Award.**

c10 **Choe, E.K.**, Lee, B., Munson, S.A., Pratt, W., & Kientz, J.A. (2013). Persuasive Performance Feedback: The Effect of Framing on Self-Efficacy. *In Proceedings of the American Medical Informatics Association (AMIA '13), 825*–833. [Acceptance rate 35%] **Best Student Paper Nomination.**

c9 **Choe, E.K.**, Jung, J., Lee, B., & Fisher, K. (2013). Visual Framing: Nudging People Away From Privacy-Invasive Mobile Apps. *In Proceedings of the International Conference on Human-Computer Interaction (INTERACT '13) (3),* 74–91. [Acceptance rate 31%]

c8 **Choe, E.K.**, Consolvo, S., Jung, J., Harrison, B., Patel, S.N., & Kientz, J.A. (2012). Investigating Receptiveness to Sensing and Inference in the Home Using Sensor Proxies. *In Proceedings of the International Conference on Ubiquitous Computing (UbiComp '12),* 61–70. [Acceptance rate 19%] **Best Paper Nomination.**

c7 Kay, M., **Choe, E.K.**, Shepherd, J., Greenstein, B., Consolvo, S., & Kientz, J.A. (2012). Lullaby: A Capture & Access System for Understanding the Sleep Environment. *In Proceedings of the International Conference on Ubiquitous Computing (UbiComp '12)*, 226–234. [Acceptance rate 19%] **Best Paper Award.**

c6 **Choe, E.K.**, Consolvo, S., Jung, J., Harrison, B., & Kientz, J.A. (2011). Living in a Glass House: A Survey of Private Moments in the Home. *In Proceedings of the International Conference on Ubiquitous Computing (UbiComp '11),* 41–44. [Acceptance rate 17%]

c5 **Choe, E.K.**, Consolvo, S., Watson, N.F., & Kientz, J.A. (2011). Opportunities for Computing Technologies to Support Healthy Sleep Behaviors. *In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI '11),* 3053–3062. [Acceptance rate 27%]

c4 Kientz, J.A., **Choe, E.K.**, Birch, B., Maharaj, R., Fonville, A., Glasson, C., & Mundt, J. (2010). Heuristic Evaluation of Persuasive Health Technologies. *In Proceeding of the International Health Informatics Symposium (IHI '10)*, 555–564. [Acceptance rate: 28%]

c3 Fonville, A., **Choe, E.K.**, Oldham, S., & Kientz, J.A. (2010). Exploring the Use of Technology in Healthcare Spaces and its Impact on Empathic Communication. *In Proceedings of the International Health Informatics Symposium (IHI '10)*, 497–501. [Acceptance rate: 28%]

c2 Landry, B.M., **Choe, E.K.**, McCutcheon, S., & Kientz, J.A. (2010). Post-Traumatic Stress Disorder: Opportunities & Challenges for Computing Technology. *In Proceedings of the International Health Informatics Symposium (IHI '10)*, 780–789. [Acceptance rate: 28%]

c1 **Choe, E.K.**, Duarte, M., & Kientz, J.A. (2010). Understanding and Designing Computing Technologies that Convey Concerning Health News. *Proceedings of the International Conference on Design & Emotion (D&E '10)* (pp. 1–12).

Conferences, Workshops, and Talks

Keynotes

k1 "Accessible Tracking for All"
Korean Computer Scientists and Engineers Association in America (KOCSEA) Tech Symposium
Washington DC (November 2024)

Invited Talks

j44 "Inclusive Experience Design"
Yonsei University
Seoul, Korea (August 2025)

j43 "The Productive Self Through the Lens of Personal Informatics"
Google Academic Speaker Series
Online (June 2025)

j42 "Accessible by Design: Health Tracking for the Marginalized and Underserved"
40th Anniversary International Workshop of the Korean Society for Information Management
Seoul, Korea & Online (February 2025)

j41 "Speech in Motion: Multimodal Interaction in Personal Health Technology"
1st ACM Workshop on Wireless and Mobile Computing for AgeTech
Washington DC (November 2024)

j40 "Evaluating Data Visualization"
Seoul National University, Visualization and Business Analytics (ViBA) Lab Seminar
Seoul, Korea (June 2024)

j39 "Inclusive and Accessible Health Tracking"
NYU Global Course
Seoul, Korea (June 2024)

i38 "Inclusive and Accessible Health Tracking"
KAIST, Dept. of Industrial & Systems Engineering Department Seminar
Daejeon, Korea (March 2024)

i37 "Inclusive and Accessible Health Tracking"
Seoul National University, Dept. of Computer Science Summer School
Seoul, Korea (August 2023)

i36 "Stroke Care: A Rich Canvas for HCI Research"
Dagstuhl Seminar on "Inclusive Data Visualization"
Schloss Dagstuhl, Germany (June 2023)

i35 "Converse with Myself, My Data: How Speech Can Augment Personal Informatics"
University of Illinois Urbana-Champaign, School of Information Sciences ProSeminar
Champaign, Illinois (March 2023)

i34 "Toward Inclusive and Accessible Self-Tracking" with Jong Ho Lee*
University of Maryland, Dept. of Hearing and Speech Sciences (HESP) Seminar
College Park, Maryland (September 2022)

i33 "Toward Inclusive and Accessible Self-Tracking"
POSTECH, Dept. of Computer Science
Pohang, Korea (June 2022)

i32 "Personal Informatics for All: Supporting Diverse Tracking Needs with Personalization"
George Mason University, Dept. of Information Sciences & Technology Seminar
Online (October 2021)

i31 "Ubiquitous Data Collection: Self-Tracking with Mobile, Wearable, and Embedded Devices"
JIS (Jornadas de Informática en Salud) Go Live HCI Track Invited Speaker
Online (November 2020)

i30 "Ubiquitous Data Collection: Self-Tracking with Mobile, Wearable, and Embedded Devices"
Korean Institute of Information Scientists and Engineers
Online (October 2020)

i29 "Ubiquitous Data Collection: Self-Tracking with Mobile, Wearable, and Embedded Devices"
University of Maryland, Social Data Science Center Launch Event
Online (September 2020)

i28 **"**Designing for Personalized Tracking Experience"
University of Washington, Design, Use, and Build (DUB) Seminar Series
Seattle, Washington (June 2019)

i27 **"**Designing for Personalized Tracking Experience"
University of California, Irvine. The Informatics Seminar Series
Irvine, California (May 2019)

i26 "Designing for Personalized Tracking Experience"
University of Maryland, Baltimore County, Interactive Systems Research Center (ISRC) Invited Speaker
Baltimore, Maryland (March 2019)

i25 "Semi-Automated Tracking: A Balanced Approach for Self-Monitoring"
Microsoft Research, Invited Speaker
Redmond, Washington (July 2018)

i24 "What Patient Share, What Doctors Want Them to Share: Patient-Generated Data in the Clinic"
University of Maryland, Human Computer Interaction Lab (HCIL) Symposium Keynote
College Park, Maryland (May 2018)

i23 "Designing a Flexible Personal Data Tracking Tool"
University of Maryland, Human Computer Interaction Lab (HCIL) Brown Bag Lunch Seminar
College Park, Maryland (April 2018)

i22 "Facilitating Self-Reflection on Personal Health Data"
Johns Hopkins University, School of Medicine, Division of Health Sciences Informatics Grand Rounds
Baltimore, Maryland (February 2018)

i21 "Facilitating Self-Reflection on Personal Health Data"
Medstar Institute for Innovation, Invited Speaker
Washington DC (January 2018)

i20 "Designing for Personal Data Reflection"
Seoul National University, Computer Science, Department Seminar
Seoul, Korea (December 2017)

i19 "Participatory Design in Healthcare: Bringing Patients & Clinicians into the Design Process"
Hershey Medical Center
Hershey, Pennsylvania (July 2017)

i18 "Empowering People through Self-Tracking and Personal Data Visualization"
Northwestern University, School of Communication
Evanston, Illinois (February 2017)

i17 "Empowering People through Self-Tracking and Personal Data Visualization"
University of Maryland, College Park, College of Information Studies
College Park, Maryland (February 2017)

i16 "Empowering People through Self-Tracking and Visual Data Exploration"
KAIST, Computer Science HCI Colloquium Series
Daejeon, Korea (December 2016)

i15 "Personal Informatics: Empowering People through Self-knowledge and Reflection"
Pennsylvania State University, Biobehavioral Health Colloquium Series
University Park, Pennsylvania (October 2016)

i14 "Empowering People to Improve Their Lives Leveraging Self-Tracking Data"
University of Arizona, Department of Computer Science, Colloquium Speaker
Tucson, Arizona (May 2016)

i13 "What Can We Learn from the Quantified Self Movement?"
Kentucky Conference on Health Communication, Distinguished Speaker

Lexington, Kentucky (April 2016)

i12 "Persuasive Performance Feedback: How to Leverage the Framing Effect in Designing Self-Monitoring Technology"
University of Michigan, School of Information, MISC Talk
Ann Arbor, Michigan (December 2015)

i11 "Quantified Self Movement: From Personal Data to Visualization Insights"
SKKU, iSpeaker Distinguished Lecture
Seoul, Korea (May 2015)

i10 "Design for Change: Self-monitoring Technology for Data Capture and Reflection"
Seoul National University, Computer Science, Department Seminar
Seoul, Korea (December 2014)

i9 "Design for Change: Self-monitoring Technology for Data Capture and Reflection"
POSTECH, Department of Computer Science, Department Seminar
Pohang, Korea (December 2014)

i8 "Design for Change: Self-monitoring Technology for Data Capture and Reflection"
KAIST, Department of Industrial Design, Faculty Seminar
Daejeon, Korea (December 2014)

i7 "Designing Self-monitoring Technology to Promote Healthy Behaviors"
Pennsylvania State University, College of Information Sciences and Technology
University Park, Pennsylvania (March 2014)

i6 "Designing Self-monitoring Technology to Promote Healthy Behaviors"
Arizona State University, School of Computing, Informatics, and Decision Systems Engineering
Phoenix, Arizona (March 2014)

i5 "Designing Self-monitoring Technology to Promote Healthy Behaviors"
Indiana University – Purdue University Indianapolis, School of Informatics and Computing
Indianapolis, Indiana (February 2014)

i4 "Designing Self-monitoring Technology to Promote Healthy Behaviors"
University of Washington, Design, Use, and Build (DUB) Seminar Series
Seattle, Washington (February 2014)

i3 "Self-monitoring Technology to Promote Healthy Sleep Behaviors"
Intel Science & Technology Center on Pervasive Computing Retreat
Seattle, Washington (July 2013)

i2 "Visual Framing: Nudging Toward Better Privacy Decision"
Microsoft Research
Redmond, Washington (August 2012)

i1 "Investigating Receptiveness to Sensing and Inference in the Home Using Sensor Proxies"
University of Washington, Design, Use, and Build (DUB) Seminar Series
Seattle, Washington (August 2012)

Refereed Workshop Papers

w12 Wagle, N., Lazar, A., Kacorri, H., & **Choe, E.K.** (2024). The User's Burden in Managing Self-Tracking Technologies. *Workshop paper presented at the 1st ACM Workshop on Wireless and Mobile Computing for AgeTech.* Washington D.C.

w11 Luo, Y.*, Kim, Y.H.*, Lee, B., Hassan, N., & **Choe, E.K.** (2022). FoodScrap: Capturing Everyday Food Practice Through Speech Input. *Workshop paper presented at the "International Food Acquisition Research and Methods (iFARM)."* College Park, Maryland.

w10 **Choe, E.K.**, Lee, B., & Hwang, S. (2018). Personal Data Exploration with Speech on Mobile Devices. *Workshop paper presented at "Multimodal Interaction for Data Visualization" in the ACM International Conference on Advanced Visual Interfaces (AVI '18).* Grosseto, Italy.

w9 **Choe, E.K.** (2014). Semi-Automatic Self-Monitoring Technology for Enhancing Self-Awareness and Reducing Data Capture Burden. *NIH Workshop on "Computing Challenges in Future Mobile Health (mHealth) Systems and Applications."* Bethesda, Maryland.

w8 **Choe, E.K.**, Lee, B., & Kientz, J.A. (2014). Personal Visual Analytics for Self-monitoring. *Workshop paper presented at the "Personal Perspective on Visualization and Visual Analytics" in the ACM DIS 2014 Conference.* Vancouver, British Columbia, Canada.

w7 **Choe, E.K.** (2012). Visual Framing: Nudging Toward Health Behavior Change. *Poster presented at the "Workshop on Interactive Systems in Healthcare" (WISH) at AMIA 2012*, Chicago, Illinois.

w6 Gilbert, M., **Choe, E.K.**, Lee, M.J., & Kientz, J.A. (2012). Firefly: Designing a Game for Promoting Relaxation Before Sleep. *Poster presented at" Workshop on Interactive Systems in Healthcare" (WISH) at AMIA 2012*, Chicago, Illinois.

w5 Kay, M., **Choe, E.K.**, & Kientz, J.A. (2012). Evaluating Zeo and Fitbit for Tracking Sleep Behaviors. *Workshop paper presented at the "Evaluating Off-the-Shelf Technologies for Personal Health Monitoring: A Hands-On Workshop" at ACM UbiComp 2012*. Pittsburgh, Pennsylvania.

w4 Kay, M., **Choe, E.K.**, Shepherd, J., Greenstein, B., Consolvo, S., & Kientz, J.A. (2012). Lullaby: Capturing the Unconscious in the Sleep Environment. *Workshop paper presented at "Personal Informatics in Practice: Improving Quality of Life Through Data" at CHI 2012*. Austin, Texas.

w3 Kay, M., **Choe, E.K.**, Shepherd, J., Greenstein, B., Consolvo, S., Kelley, P.G., & Kientz, J.A. (2011). Lullaby: Environmental Sensing for Sleep Self-Improvement. *Workshop paper presented at "Personal Informatics & HCI: Design, Theory, & Social Implications" at CHI 2011*. Vancouver, British Columbia, Canada.

w2 Landry, B.M., Kientz, J.A., & **Choe, E.K.** (2010). Post Traumatic Stress Disorder: Issues and Opportunities. *Poster presented at "Workshop on Interactive Systems in Healthcare" (WISH) at CHI 2010.* Atlanta, Georgia.

w1 **Choe, E.K.**, Duarte, M., & Kientz, J.A. (2010). Empathy in Health Technologies. *Poster presented at "Workshop on Interactive Systems in Healthcare" (WISH) at CHI 2010*. Atlanta, Georgia.

Refereed Extended Abstracts[2] & Posters

ea9 Pugliese, B.L., Civeriati, V., Piela, K., Fabara, E.E., Tabb, D., O'Brien, A., Liu, Y., Dhamrongsirivadh, R., Varga, A., Lee, J.G.W., Ramasarma, V., Bonato, P., **Choe, E.K.**, & Lee, S.I. (2025). Using a Ring Sensor to Monitor Hand Function in Stroke Survivors. *In International Neurorehabilitation Symposium (INRS) 2025.*

[2] "Extended Abstracts" are peer-reviewed and are typically published in Adjunct Proceedings.

ea8 Song, J.*, Lee, B., Seo, J., & **Choe, E.K.** (2025). Who Helps the Helpers?: Complications and Considerations for ICT Instructors Teaching Older Adults. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '25), Late Breaking Work Track* (pp. 1–7). [Acceptance rate 32.83%]

ea7 Smolyak, D.*, Lee, B., & **Choe, E.K.** (2018). TandemTrack: Promoting Consistent Exercise Leveraging Multimodal Training and Tracking. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '18), Late Breaking Work Track* (pp. 1–6). [Acceptance rate 39.9%]

ea6 Binda, J.*, Cope, N.*, Park, H.*, Yuan, C.W., Carroll, J.M., & **Choe, E.K.** (2017). Intergenerational Sharing of Health Data Among Family Members. *Adjunct Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17)*, 468–471.

ea5 Landis, C.A., **Choe, E.K.**, Kientz, J.A., Thomas, K.A., Kieckhefer, G.M., Heitkemper, M.M., & Vitiello, M.V. (2015). Smartphone Sleep Diary App: Pilot Testing. *SLEEP 2015.*

ea4 Li, N., Zhao, C., **Choe, E.K.**, & Ritter, F.E. (2015). HHeal: A Personalized Health App for Flu Tracking and Prevention. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '15),* 1415–1420.

ea3 Landis, C.A., **Choe, E.K.**, Kientz, J.A., Thomas, K.A., Kieckhefer, G.M., Heitkemper, M.M., & Vitiello, M.V. (2015). Pilot Testing a Smartphone Sleep Diary App. *48th Annual Communicating Nursing Research Conference.*

ea2 **Choe, E.K.**, Kientz, J.A., Halko S., Fonville, A., Sakaguchi, D., & Watson, N. (2010). Opportunities for Computing to Support Healthy Sleep Behavior. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '10),* 3661–3666.

ea1 **Choe, E.K.**, Shinohara, K., Chilana, P.K., Dixon, M., & Wobbrock, J.O. (2009). Exploring the Design of Accessible Goal Crossing Desktop Widgets. *Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (CHI '09),* 3733–3738.

Non-Refereed Presentations (Invited)

np1 **Choe, E.K.** (2024). Center on Aging 50th Anniversary Celebration. (December 2024)

Non-Refereed Panels (Invited)

pn2 **Choe, E.K.** (2023). *Panelist in "Responsible Data Practices" at the* Fairness in Datasets for Machine Learning in Accessibility Workshop, Google. Online (August 2023)

pn1 **Choe, E.K.** (2019). *Panelist in "Health Technology and the Impact on Communities" at Public Health Research@Maryland*. College Park, Maryland (April 2019).

Organized Workshops

ow7 Mamykina, L., Epstein, D.A., Klasnja, P., Spruijt-Metz, D., Meyer, J., Czerwinski, M., Althoff, T., **Choe., E.K.**, De Choudhury, M., & Lim, B.Y. (2022). Grand Challenges in Personal Informatics and AI. *Workshop organized at ACM CHI 2022.* Online.

ow6 Bartram, L., Carpendale, S., **Choe., E.K.**, Lee, B., & Tory, M. (2021). Human-Data Interaction. *Workshop organized at IEEE VIS 2021.* Online.

ow5 **Choe, E.K.**, Dachselt, R., Isenberg, P., & Lee, B. (2019). Mobile Data Visualization. *Seminar organized at Dagstuhl Schloss.* July 14–19, 2019. Dagstuhl, Germany. https://www.dagstuhl.de/19292.

ow4 Lazar, A. & **Choe, E.K.** (2018). Building Community Partnerships for Aging Research. *Workshop organized at the Human-Computer Interaction Lab Annual Symposium.* College Park, Maryland.

ow3 Lee, B., Brehmer, M., Isenberg, P., **Choe, E.K.**, Langner, R., & Dachselt, R. (2018). Data Visualization on Mobile Devices. *Workshop organized at the ACM Conference on Human Factors in Computing Systems (CHI '18).* Montreal, Quebec, Canada.

ow2 **Choe, E.K.**, Fitzpatrick, G., Lee, B., & Wilcox, L. (2017). Leveraging Patient-Generated Data for Collaborative Decision Making in Healthcare. *Workshop organized at the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17).* Barcelona, Spain.

ow1 Connelly, K., Caine, K., Siek, K.A., Kientz, J.A., Kutz, D.O., Hanania, R., Khan, D.U., & **Choe, E.K. (**2012). Evaluating Off-the-Shelf Technologies for Personal Health Monitoring: A Hands-On Workshop. *Workshop organized at the International Conference on Ubiquitous Computing (UbiComp '12).* Pittsburgh, Pennsylvania.

Technical Report

t3 Zehrung, R.*, Huang, L., Lee, B., & **Choe, E.K.** (2021). Investigating Opportunities to Support Kids' Agency and Well-being: A Review of Kids' Wearables. *arXiv preprint arXiv:2104.05979* (pp. 1–20).

t2 **Choe, E.K.,** Dachselt, R., Isenberg, P., & Lee, B. (2019). Mobile Data Visualization (Dagstuhl Seminar 19292). *Dagstuhl Reports, 9*(7), 78–93. 10.4230/DagRep.9.7.78.

t1 Kientz, J.A., **Choe, E.K.**, & Truong, K.N. (2013). Texting from the Toilet: Mobile Computing Use and Acceptance in Private and Public Restrooms. *Knowledge Media Design Institute, University of Toronto, Technical Report, KMD-13-1* (pp. 1–5).

Completed Creative Works and Scholarship

Software and Applications

sw8 *MyMove.* An activity labeling smartwatch app using voice input for older adults. Kim, Y-H.*, Lee, B., Kacorri, H., Lazar, A., & **Choe, E.K.**

sw7 *Data@Hand.* A speech- and touch-based personal data exploration mobile app. Contributors: Kim, Y-H.*, Srinivasan, A., Lee, B., & **Choe, E.K.**

sw6 *OmniTrack.* An Android-based flexible mobile self-tracking platform for constructing personalized trackers. Contributors: Kim, Y-H.*, **Choe, E.K.**, Lee, B., Seo, J.

sw5 *Time for Break.* A PC-based prompting application that promotes knowledge workers to take regular standing breaks. Contributors: Luo, Y.*, Lee, B., Conroy, D., **Choe, E.K.**

sw4 *ChartAccent.* A web-based chart annotation tool. Contributors: Ren, D., Brehmer, M., Lee, B., Höllerer, T., **Choe, E.K.**

sw3 *Visualized Self.* A web-based visualization tool for integrating self-tracking data and supporting self-reflection. Contributors: **Choe, E.K.**, Baur, D., Lee, B.

sw2 *SleepTight.* An Android-based application for self-monitoring of sleep behaviors. Contributors: **Choe, E.K.**, Landis, C., Lee, B., Kientz, J.

sw1 *Lullaby.* An Android and PC-based sensing application that combines environmental sensing with feedback on the sleep environment. Contributors: Kay, M., **Choe, E.K.**, Shepherd, J., Greenstein, B., Consolvo, S., Watson, N., Kientz, J.

Sponsored Research and Programs—Administered by the Office of Research Administration (ORA)

Sr6 **Choe, E.K.** (Principal Investigator). (2025–2026). *Empowering Caregivers of Individuals with Cognitive Impairment to Make Safe Nonprescription Drug Decisions.* Pilot subaward from the Massachusetts AI and Technology Center for Connected Care in Aging and Alzheimer's Disease (MassAITC), funded by the National Institute on Aging. Total: $228,807 (UMD INFO: $228,807).

sr5 Cooke, N.A. (Principal Investigator, American Library Association), **Choe, E.K.** (Site PI, UMD). (2021–2025). *Spectrum Doctoral Fellowship Program: Catalysts for Change*, Institute of Museum and Library Services. $798,489 ($2,009,743 with Cost Share); UMD INFO Subaward $86,000 ($329,646 with Cost Share).

sr4 **Choe, E.K.** (Principal Investigator), Lazar, A. (Co-PI), Kacorri, H. (Co-PI), Conroy, D. (Site PI, Penn State). (2020-2025). *CHS: Medium: Collaborative Research: Teachable Activity Trackers for Older Adults*, National Science Foundation. $1.2M (UMD INFO: $1,080,000).

sr3 Lee, I. (Principal Investigator, UMass Amherst), Bonato, P. (Site PI, Harvard Medical School), **Choe, E.K.** (Site PI, UMD), Ramasarma, N. (Industry Collaborator, FormSense). (2020-2025). *Achieving Optimal Motor Function in Stroke Survivors via a Human-Centered Approach to Design an mHealth Platform,* National Institute of Health. NIBIB R01. $2.4M (UMD INFO: $506,238).

sr2 **Choe, E.K.** (Principal Investigator). (2017–2023). *CAREER: Advancing Personal Informatics through Semi-Automated and Collaborative Tracking,* National Science Foundation. $546,348.

- Research Experiences for Undergraduates (REU) Supplements: $16,000 (2018–2019)

sr1 **Choe, E.K.** (Principal Investigator). (2015–2018). *CRII:CHS: Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing,* National Science Foundation. $175,000.

- Research Experiences for Undergraduates (REU) Supplements: $16,000 (2017–2018)

Gifts and Funded Research Not Administered by ORA

g10 Gouveia, R. (Principal Investigator), **Choe, E.K.** (Member), & Guerreiro, J. (Member). (2025–2026). Accessible Health Tracking with Ambient Feedback for Visually Impaired People. Fundação para a Ciência e a Tecnologia (FCT) Exploratory Project. € 60.000.

g9 Cox, J. (FDA Research Scientist, Subject Matter Expertise) & **Choe, E.K.** (Collaborating UM Faculty, Principal Investigator). (2024–2025). *How Limited Literacy Consumers Respond to Health Prompts in Digital vs. Telephone Platforms: Review and Experiment.* University of Maryland Center of Excellence in Regulatory Science and Innovation (M-CERSI) Research Scientist Collaboration Program. $15,000.

g8 Seo, J (Principal Investigator), **Choe, E.K.** (Invited Scientist). (2023–2024). *Enhancing Digital Inclusivity: AI-Powered Mobile Tutorial Authoring*, National Research Foundation of Korea (NRFK). Brain Pool Fellowship Program. $188,000. Supported my sabbatical research in Korea.

g7 **Choe, E.K.** (Principal Investigator). (2020–2022). *Investigating the Interrelationships Between Patients' Data Tracking Practices, Data Sharing Practices, and their Health Literacy*, University of Maryland, College of Information Studies. Research Improvement Grant. $2500.

g6 **Choe, E.K.** (Principal Investigator), Kacorri, H. (Co-PI), Lazar, A. (Co-PI). (2018–2019). *Engaging Seniors in Light Physical Activities with Teachable Interfaces*, University of Maryland, Division of Research & College of Information Studies. Strategic Growth Fund. $14,891.

g5 Blanchard, J. (PI), Shackman, A. (Co-PI), **Choe, E.K.** (Co-PI). (2018–2019). *Understanding the Role of Negative Affect in Psychosis Using Multimodal Imaging and Wearable Sensors.* University of Maryland, Brain and Behavior Initiative. $49,880.

g4 **Choe, E.K.** (Principal Investigator). (2016). *Leveraging Personal Health Data for Collaborative Medical Decision Making,* Nokia, University Donation Program. €25,000 [Declined].

g3 **Choe, E.K.** (Principal Investigator), Carroll, J.M. (Co-PI). (2016–2017). *Intergenerational Collaborative Health Tracking*, Pennsylvania State University, College of Information Sciences and Technology. Research Seed Grant. $29,701.

g2 **Choe, E.K.** (Principal Investigator). (2015–2016). *Visualized Self: Empowering People to Improve Their Lives Leveraging the Data About Themselves,* Microsoft Research. $40,000.

g1 **Choe, E.K.** (Principal Investigator), Sawyer, A.M. (Co-PI), Reddy, M. (Co-PI). (2014–2015). *Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing,* Pennsylvania State University, College of Information Sciences and Technology. Research Seed Grant. $9,580.

Research Fellowships, Prizes, and Awards

2025 ACM Distinguished Member

2025 ACM SIGCHI 2025—Best Paper Award [c37]

2025 ACM SIGCHI 2025—Best Paper Award [c36]

2024 University of Washington, Information School—Distinguished Alumni Award

2022 ACM ISS 2022—Honorable Mention Award [j24]

2021 ACM CSCW 2021—Methods Recognition [j19]

2021 ACM CSCW 2021—Best Paper Award [j19]

2021 ACM SIGCHI 2021—Honorable Mention Award [c30]

2019 AMIA 2019—Distinguished Paper Nomination [c26]

2019 Microsoft Research Faculty Fellowship Finalist

2019 Runner-up, University of Maryland, College Park, Graduate School's Graduate Faculty Mentor of the Year

2017 ACM IDC 2017—Best Paper Award Nomination [c19] *(top 3 papers)*

2017 NSF CAREER Award—*Advancing Personal Informatics through Semi-Automated and Collaborative Tracking*

2016 Nokia University Donation Award Program Recipient

2016 AMIA 2016—Distinguished Paper Nomination [c14]

2016 Penn State College of IST Junior Faculty Excellence in Research Award

2016 Penn State College of IST Seed Grant Award—*Intergenerational Collaborative Health Tracking*

2015 NSF CRII Award—Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing

2015 Microsoft Research Grant—Visualized Self: Empowering People to Improve Their Lives Leveraging the Data About Themselves

2015 NIH 2015 mHealth Summer Training Institutes Scholar

2014 Penn State College of IST Seed Grant Award—*Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing*

2014 ACM SIGCHI 2014—Best of CHI Honorable Mention Award [c11]

2013 AMIA 2013—Best Student Paper Nomination [c10]

2013	Google USA Anita Borg Memorial Scholarship
2012	ACM UbiComp 2012—Best Paper Award [c7]
2012	ACM UbiComp 2012—Best Paper Nomination [c8]
2008	Bears Breaking Boundaries (Design Competition), 2nd Place, U.C. Berkeley
2006–2008	Cambridge Culture Foundation, Graduate Fellowship Recipient (tuition & stipend for two years)
2004	Young Engineers Honor Society, National Academy of Engineering of Korea
2003	Steel Furniture Design Competition, Bronze Medal, POSCO
2001	Korea Software Awards, 2nd Place—Bronze Medal, Ministry of Information and Communication, Korea.
2001–2005	Merit-based Government Scholarship, KAIST (tuition & stipend for four years)

3. Teaching, Extension, Mentoring, and Advising

Courses Taught

University of Maryland, College Park (Instructor)

- INST 402: Designing Patient-Centered Technologies (Undergraduate; Elective; 3 credits)
  - Fall 2024 (enrollment 34)
- INST 408D: Special Topics in Information Science: Designing Patient-Centered Technologies (Undergraduate; Elective; 3 credits)
  - Spring 2020 (enrollment 28)
- INST 408G: Special Topics in Information Science: Do You Like Research? (Undergraduate; Elective; 3 credits)
  - Fall 2025 (enrollment 15)
- INST 631: Fundamentals of Human-Computer Interaction (Graduate; Required; 3 credits)
  - Fall 2017 (enrollment 30)
- INST 639D: HCI Practical Skills: Research Through Design (Graduate; Elective; 1 credit)
  - Fall 2019 (enrollment 8)
- INST 639M: HCI Practical Skills: Mastering a Master's Thesis (Graduate; Elective; 1 credit)
  - Fall 2022 (enrollment 6)
- INST 682 / CMSC838X: Personal Health Informatics & Visualization (Graduate; Elective; 3 credits)
  - Spring 2026 (enrollment 4)
  - Spring 2025 (enrollment 26)
  - Spring 2023 (enrollment 18)
  - Fall 2022 (enrollment 30)
  - Fall 2021 (enrollment 25)
  - Fall 2020 (enrollment 23)
  - Fall 2019 (enrollment 19)
  - Fall 2018 (enrollment 27)
- INST 711: Interaction Design Studio (Graduate; Required; 3 credits)
  - Spring 2019 (enrollment 18)
- INST 779 / 828 Reading Seminar: HCI Seminar on Making Data Accessible (Graduate; Elective; 1 credit)
  - Spring 2022 (enrollment 6)
- INST 779 / 828 Reading Seminar: Designing Equitable and Inclusive AI-Powered Systems (Graduate; Elective; 1 credit)
  - Fall 2024 (enrollment 10)

- INST 808: Data Collection In-Situ: Diary Study and Experience Sampling Method (Graduate; Elective; 3 credits)
  - Spring 2022 (enrollment 14)

Pennsylvania State University, University Park (Instructor)

- IST 520: Foundations of Human-Centered Design (Graduate; Required; 3 credits)
  - Spring 2017 (enrollment 19)
- IST 597-003: Design Thinking for Health Technologies (Graduate; Elective; 3 credits)
  - Fall 2016 (enrollment 13)
- IST 331: Organization and Design of Information Systems: User and System Principles (Intro to HCI course) (Undergraduate; Required; 3 credits)
  - Spring 2016 (enrollment 54)
  - Spring 2015 (enrollment 45)
- IST 110S: Information, People, and Technology Seminar (Undergraduate; Required; 3 credits)
  - Spring 2016 (enrollment 29)
  - Fall 2015 (enrollment 24)

Seoul National University, Seoul, Korea (Instructor)

- Special Winter School Lecture Series on Qualitative Research Method in HCI (Graduate; non-credit)
  - Winter 2024 (enrollment 30)
- Special Winter School Lecture Series on Foundations of Human-Computer Interaction (Graduate; non-credit)
  - Winter 2016 (enrollment 23)

Yonsei University, Seoul, Korea (Instructor)

- Special Winter School Lecture Series on Human-Computer Interaction and Design Thinking (Graduate; Elective; 3 credits)
  - Winter 2014 (enrollment 31)

University of Washington, Seattle, Washington (Teaching Assistant)

- INFO 490A/B, Project Capstone I/II
  Worked with Prof. Andrew J. Ko and Prof. Wanda Pratt
  - Winter 2013
  - Spring 2013
  - Winter 2012
  - Spring 2012
- IMT 540 A/C, Design Methods for Interaction and Systems
  Worked with Prof. Julie A. Kientz and Prof. David Hendry
  - Fall 2011
- INSC 546, Assistive Technology & Inclusive Design
  Worked with Prof. Julie A. Kientz
  - Spring 2010
- INFO 360, User-Centered Design
  Worked with Prof. Julie A. Kientz and Prof. David Hendry
  - Spring 2009

University of California, Berkeley, California (Teaching Assistant)

- I213, User Interface Design and Development
  Worked with Prof. Tapan Parikh
  - Spring 2008
- I141, Search Engines: Technology, Society, and Business
  Worked with Prof. Marti Hearst
  - Fall 2007

Teaching Innovations

Course or Curriculum Development

2025	Newly developed and offered INST408G: Do You Like Research? for the INFO Undergraduate program
2022	Newly developed and offered INST639M: Mastering a Master's Thesis for the HCI Master's program
2021	Newly developed and offered INST 808: Data Collection In-Situ: Diary Study and Experience Sampling Method for Master's and Doctoral students
2020	Newly developed and offered INST 408D: Designing Patient-Centered Technologies
2019	Newly developed and offered INST 639D: Research Through Design for the HCI Master's program
2018–2019	Newly developed and offered INST 711: Interaction Design Studio for the HCI Master's program
2018	Newly developed, cross-listed (with Computer Science), and offered INST 682 / CMSC838X: Personal Health Informatics & Visualization for the iSchool and CS graduate programs
2017	Significantly revised and offered INST 631: Fundamentals of Human-Computer Interaction for the HCI Master's program
2016	Newly developed and offered IST 597-003: Design Thinking for Health Technologies for the iSchool graduate program
2015	Significantly revised and offered IST 331: Organization and Design of Information Systems: User and System Principles for the iSchool undergraduate program

Advising: Research or Clinical

Undergraduate—Independent Study / REU (Research Experiences for Undergraduates) Advisor

1/2022–5/2022	Matthew Falzon, UMD Computer Science	Research supervisor
1/2021–5/2021	Abhinav Vedmala, UMD Computer Science	NSF REU Advisor
11/2019–12/2020	Mengyun Liu, UMD iSchool	Research supervisor
06/2019–08/2019	Tyson Nguyen, UMD iSchool	NSF REU Advisor
02/2019–07/2020	Lily Huang, UMD iSchool	NSF REU Advisor
08/2017–05/2018	Daniel Smolyak, UMD Computer Science	NSF REU Advisor; co-authored [ea7]
01/2016–05/2017	Olivia Richards, Penn State Mathematics	NASA Pennsylvania Space Grant Undergraduate Fellowship Supervisor
08/2015–05/2017	Hyehyun Park, Penn State IST	Independent Study Advisor (IST 496); co-authored [c21, ea6]
01/2015–05/2017	Natalie Cope, Penn State IST	Internship Advisor; NSF REU Advisor; co-authored [c21, ea6]
01/2015–08/2015	Justin Roth, Penn State IST	Honors Thesis Committee

01/2015–05/2015	Jihyun Oh, Penn State IST	Independent Study Advisor (IST 496)

Master's—Research & Independent Study Advisor / Master's Thesis Advisor & Chair of the Committee

01/2025–	Siqiao Austin Ao, UMD INFO HCIM	Master's Thesis Advisor / Committee Chair
05/2025–12/2025	Harshitha Kommaraju, UMD INFO HCIM	Research Advisor
01/2023–05/2024	Mengying Li, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair Thesis title: "Behavior Displacement in Sedentary and Screen Time Among Older Adults"
08/2022–06/2023	Aishwarya Shettigar, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair Thesis title: "Show and Tell: Exploring How Audio Narratives Can Complement Visualizations of Stroke Survivors' Personal Health Data"
02/2020–05/2022	Jarrett Lee, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair; co-authored [j26, j28, c33] Thesis title: "Exploring Ambient to Disruptive Health Notifications via Shape-Changing Interfaces"
01/2021–05/2022	Diana Chou, UMD CS MS	Research Advisor; co-authored [c32]
01/2021–12/2021	Matthew Patrick, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair Thesis title: "Reasons and Rationalizations for Bedtime Procrastination in University Students"
02/2020–05/2021	Shaan Chopra, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair; co-authored [c29] Thesis title: ""I'm not alone in this": Co-managing Stigmatized Chronic Health Conditions"
2021	David Wang, UMD CS MS	MS in CS Scholarly Paper advisor
2020	Zhehan Xiong, UMD CS MS	MS in CS Scholarly Paper advisor
02/2020–01/2021	Rachael Zehrung, UMD CS MS	Research Advisor; co-authored [c29]
02/2020–05/2020	Amy Asadi, UMD iSchool HCIM	Research Advisor
01/2019–06/2019	Anam Bhatia, UMD iSchool HCIM	Independent Study Advisor
05/2018–05/2019	Diva Smriti, UMD iSchool HCIM	Master's Thesis Advisor / Committee Chair Thesis title: "Designing Technology to Increase Adoption of Healthy Behaviors in Men in the Context of Light Food Consumption"
05/2018–09/2018	Peiyi Liu, UMD iSchool HCIM	Internship advisor; co-authored [c25]
08/2017–05/2018	Shankar Ramesh, UMD iSchool HCIM	Master's Thesis Advisor / Committee Co-Chair (with Casey Overby Taylor from Johns Hopkins University); co-authored [j15] Thesis title: "Survey on Health Device Use by mTurk Participants"
09/2015–05/2017	Yuhan Luo, Penn State IST MS	Master's Thesis Advisor / Committee Chair; co-authored [c16, c20, c22, c25]

		Thesis title: "Understanding Information Workers' Sedentary Behavior through a Prompting System"
10/2016–05/2017	Pratik Agarwal, Penn State IST MS	Research Advisor; co-authored [c17]
09/2016–12/2016	Ning Ma, Penn State IST MS	Research Advisor; co-authored [c22]
03/2013–06/2013	Nicole B. Lee, UW HCDE MS	Collaborated on [c11]
09/2009–05/2010	Amanda Fonville, UW iSchool MSIM	Collaborated on [c3, c4, ea2]

Master's—Master's Thesis External Committees (non-advisees)

2025	Georgia Bai, UMD INFO HCIM	M.S. Thesis Committee Member
2025	Lei Mao, UMD INFO HCIM	M.S. Thesis Committee Member
2024	Sheila Ann Walsh, UMD iSchool HCIM	M.S. Thesis Committee Member
2022	Amelia Chan Short, UMD iSchool HCIM	M.S. Thesis Committee Member
2021	Youngchan Kim, Yonsei University, Korea	M.S. Thesis Committee Member
2019	Biswaksen Patnaik, UMD iSchool HCIM	M.S. Thesis Committee Member
2018	Alisha Pradhan, UMD iSchool HCIM	M.S. Thesis Committee Member
2018	Rebecca Stone, UMD iSchool HCIM	M.S. Thesis Committee Member
2017	Rama Adithya Varanasi, Penn State IST	M.S. Thesis Committee Member
2016	Jun Ge, Penn State IST	M.S. Thesis Committee Member

Doctoral—Ph.D. Dissertation Advisor & Chair of the Committee

06/2024–Present	Mengying Li, UMD INFO Ph.D.	Ph.D. Dissertation Advisor
06/2023–Present	Jian Zheng, UMD INFO Ph.D.	Ph.D. Dissertation Advisor / Committee Chair
08/2022–Present	Yiwen Wang, UMD INFO Ph.D.	Ph.D. Dissertation Advisor / Committee Chair
08/2017–05/2022	Yuhan Luo, UMD iSchool Ph.D.	Ph.D. Dissertation Advisor / Committee Chair Dissertation Title: "Promoting Rich and Low-burden Self-tracking with Multimodal Data Input"

Doctoral—Internal Review / Proposal / Dissertation Committees (non-advisees)

2025	Faizan Wajid, UMD Computer Science	Dissertation Examining Committee Member
2025	Hannah Bako, UMD Computer Science	Dissertation Examining Committee Member
2025	Karmen Ann Hice, UMD College of Education	Dissertation Examining Committee Member
2022–2025	Rachel Wood, UMD INFO	First Year Review Committee Member Dissertation Proposal Committee Member Dissertation Examining Committee Member
2022–	Ruipu Hu, UMD INFO	First Year Review Committee Member Dissertation Proposal Committee Member
2024	Do Won Kim, UMD INFO	Integrative Paper Review Committee Member
2022	Yimin Xiao, UMD iSchool	First Year Review Committee Member
2021–2022	Jian Zheng, UMD iSchool	First Year Review Committee Member Integrative Paper Review Committee Member

2021	Md Naimul Hoque, UMD iSchool	First Year Review Committee Member
2021	Rie Kamikubo, UMD iSchool	First Year Review Committee Member
2021	Yongle Zhang, UMD iSchool	Integrative Paper Review Committee Member
2021	Shi Feng, UMD Computer Science	Dissertation Examining Committee Member
2020	Brian Ondov, UMD Computer Science	Dissertation Examining Committee Member
2019	Sriram Karthik Badam, UMD Computer Science	Dissertation Examining Committee Member
2018–2020	Sigfried Gold, UMD iSchool	First Year Review Committee Member Integrative Paper Committee Member
2018–2021	Yuting Liao, UMD iSchool	Integrative Paper Review Committee Member Dissertation Proposal Committee Member Dissertation Examining Committee Member
2017–2022	Andrea Batch, UMD iSchool	First Year Review Committee Member Integrative Paper Review Committee Member Dissertation Proposal Committee Member Dissertation Examining Committee Member
2017–2019	Kenyon Crowley, UMD iSchool	Dissertation Proposal Committee Member Dissertation Examining Committee Member
2016–2017	Jiawei Chen, Penn State IST	Dissertation Committee Member
2015–2017	Elizabeth Eikey, Penn State IST	Dissertation Committee Member

Doctoral—External Examiner of Ph.D. Thesis (outside of UMD)

2021–2024	Donghan Hu, Virginia Tech, USA	Ph.D. Preliminary Exam Committee Member, Dissertation Proposal & Defense Review Committee Member
2024	Gyuwon Jung, KAIST, Korea	Ph.D. Dissertation Proposal & Defense Review Committee Member
2023	Seungchul Lee, KAIST, Korea	Ph.D. Dissertation Proposal & Defense Review Committee Member
2022–2023	Taewan Kim, KAIST, Korea	Ph.D. Dissertation Proposal & Defense Review Committee Member
2017–2019	Young-Ho Kim, Seoul National University, Korea	Ph.D. Dissertation Review Committee Member
2017–2019	Stephen MacNeil, University of North Carolina at Charlotte, USA	Ph.D. Dissertation Proposal & Defense Review Committee Member
2015–2018	Allison Doub, Penn State University, USA	Ph.D. Dissertation Proposal & Defense Review Committee Member
2016	Dandan Huang, University of Victoria, Canada	Ph.D. Dissertation Committee Member
2016	Manal Almalki, University of Melbourne, Australia	Ph.D. Dissertation External Examiner

Post-Doctoral / Research Associate

2022–Present	Jarrett Lee, UMD iSchool	Research Associate Supervisor; co-authored [j26, j28, c33]

2022–2023	Junhyung Moon, UMD iSchool	Post-Doctoral Advisor; co-authored [c37]
2019–2021	Young-Ho Kim, Seoul National University (02/2019–08/2019); UMD iSchool (09/2019–11/2021)	Post-Doctoral Advisor; co-authored [c30, c31, c32, j24, j30]

Other[3]

10/2023–04/2025	Jiwon Song, Seoul National University CS Ph.D. student	Research supervision; co-authored [ea8]
08/2021–02/2024	Jong Ho Lee, UMD iSchool Ph.D.	Research supervision; co-authored [j29]
08/2021–12/2022	Kyungyeon Lee, UMD CS Ph.D.	Research supervision; co-authored [j26]
05/2020–07/2021	Hyunsung Cho, KAIST CS MS	Research supervision; co-authored [j19]
08/2018–01/2020	Pramod Chundury, UMD iSchool Ph.D.	Research supervision
2018–2021	Yoojung Kim, Seoul National University Convergence Science and Technology Ph.D. student	Research supervision; co-authored [j9, j13, j22]
2016–2019	Young-Ho Kim, Seoul National University Dept of Computer Science Ph.D. student	Research supervision; co-authored [c13, c24, j5]
2015–2017	Haining Zhu, Penn State IST Ph.D. student	Research supervision; co-authored [c14, c16, c18]
2015–2016	Joanna Colgan, Penn State Dept of Kinesiology Ph.D. student	Research supervision; co-authored [c14]

Advising: Other than Directed Research

2018–2020	University of Maryland, UX Terps Student Organization, Faculty Advisor
2023 Spring	University of Maryland, Smith School of Business, QUEST Honors Program (490H), Faculty Advisor, Team: Get Real Health

Professional and Extension Education

Guest Lectures

g13 "Self-Tracking"
University of Maryland, Guest Lecture for INST402 (Designing Patient-Centered Technologies) (March 2026)

g12 "Care as a Design Problem"
KAIST, Guest Lecture for CS492 Computing and Platforms for Care and the Underprivileged (May 2025)

g11 "Evaluating Mobile Visualization"
Seoul National University, Department of Computer Science and Engineering, Guest Lecture for Information Visualization and Visual Analytics (December 2023)

g10 "Evaluating Mobile Visualization"
Seoul National University, Department of Communication, Guest Lecture for Intro to HCI (November 2023)

g9 "Toward Inclusive and Accessible Self-Tracking"
University of Maryland, Guest Lecture for CMSC 838K (Behavior Change and Affective Computing) (October 2022)

[3] Students with whom I have had significant research interaction on specific projects, in a capacity other than their advisor/co-advisor.

g8 "Personal Data for All"
University of Maryland, Guest Lecture for CMSC 396H (Honors Seminar) (March 2021)

g7 "Personal Data Visualization 1 & 2"
University of Washington, Guest Lectures for INFO 468A (Designing for Personal Health & Wellness) (Nov. 2020)

g6 **"**Designing for Personalized Tracking Experience"
University of Maryland, Guest Lecture for INST 408A Consumer Health Informatics (Oct. 2019).

g5 "Understanding Self-Reflection: How People Reflect on Personal Data through Visual Data Exploration"
University of Maryland, Guest Lecture for INST 728K Consumer Health Informatics (April 2018)

g4 "Design Critique"
University of Maryland, Guest Lecture for INST 776 HCIM Capstone Project (March 2018)

g3 "Visual Communications"
University of Maryland, Guest Lecture for INST 776 HCIM Capstone Project (March 2018)

g2 **"**Quantified Self"
Penn State University, Guest Lecture for IST 497E Mobile and Ubiquitous Computing (February 2015)

g1 **"**Quantified Self: Knowledge through Data Collection and Reflection"
Penn State University, Guest Lecture for IST110H Information, People, and Technology Seminar (November 2014)

Other—Tutorials and Courses

t2 "Data Visualization for UbiComp & ISWC Research"
Choe, E.K., Isenberg, P., Lee, B.
Tutorial for the UbiComp & ISWC 2019. London, UK.

t1 "Designing Digital Health Interventions" (2015).
Hekler, E., Poole, E., Klein, D., **Choe, E.K.**
Course offered at the Society of Behavioral Medicine Annual Meeting 2015. San Antonio, Texas.

4. Service and Outreach

Editorships, Editorial Boards, and Reviewing Activities

Editorial Boards

- ACM Transactions on Computer-Human Interaction (TOCHI), Associate Editor (2025–Present)
- Foundations and Trends in Human-Computer Interaction, Editor (2020–Present)
- ACM IMWUT, Associate Editor (2017–2019, 2021–2023)
- IEEE Computer Graphics & Applications, Guest Editor for a special issue on "Inclusive Data Experiences" (2024–Present)
- PLoS ONE, Guest Editor for a special issue on "Digital Technologies for Health" (2019–2020)

Reviewing Activities for Journals and Presses

- Reviewer, ACM Health (2019, 2025)
- Reviewer, ACM IMWUT (2017, 2020, 2023, 2025)
- Reviewer, ACM ToCHI (2015, 2017, 2018, 2019, 2020, 2021, 2022, 2023)
- Reviewer, Communications of the ACM (2017, 2018)

- Reviewer, IEEE Pervasive Computing (2011, 2017, 2018, 2021)
- Reviewer, IEEE InfoVis (2014, 2018, 2023, 2025)
- Reviewer, IEEE TVCG (2025)
- Reviewer, Interacting with Computer (2024)
- Reviewer, International Journal of Human-Computer Interaction (2023)
- Reviewer, International Journal of Human-Computer Studies (2015, 2018, 2022)
- Reviewer, JAMIA (2015, 2020, 2023)
- Reviewer, Journal of Medical Internet Research (2017, 2020, 2022)
- Reviewer, Nature Partner Journal Digital Medicine (2019, 2026)
- Reviewer, Personal and Ubiquitous Computing (2019, 2025)
- Reviewer, Pervasive and Mobile Computing (2014)
- Reviewer, Psychology of Sport and Exercise (2017)
- Reviewer, Psychology of Sport and Medicine (2017)
- Reviewer, Taylor & Francis Digital Creativity (2018)
- Reviewer, Taylor & Francis Human-Computer Interaction (2014, 2015, 2016, 2019, 2020)

Reviewing Activities for Agencies and Foundations & Other Universities

- Panelist, National Science Foundation
  - Directorate for Computer and Information Science and Engineering (CISE) / Division of Information and Intelligent Systems (IIS) (2016, 2018, 2019, 2020, 2021, 2022, 2025)
  - Smart and Connected Health (SCH) (2015)
- External Reviewer, Singapore Ministry of Education Academic Research Council (2021)
- Assessment Committee for Faculty Hiring, University of Copenhagen, Denmark (2021)
- External Reviewer, Computing Innovation Fellows (2021)
- External Reviewer, National Sciences and Engineering Research Council (NSERC) of Canada (2019)
- External Reviewer, Towson University Seed Funding (2023)
- External Reviewer, Mitacs Accelerate Fellowship (2024)
- External Evaluator for Promotion and/or Tenure: 6 cases (2021-Present)

Reviewing Activities for Conferences

- Reviewer, ACM CHI (2010, 2011, 2012, 2013, 2014, 2018, 2020, 2023, 2024, 2025)
- Reviewer, ACM CSCW (2014, 2015, 2016, 2017, 2018, 2020, 2025)
- Reviewer, ACM DIS (2012, 2014, 2019, 2020, 2026)
- Reviewer, ACM ISS (2018)
- Reviewer, ACM Mobile HCI (2015, 2016, 2021)
- Reviewer, ACM UbiComp (2011, 2014)
- Reviewer, ACM UIST (2013, 2015)
- Reviewer, AMIA (2013, 2016)
- Reviewer, EAI Pervasive Health (2010, 2012, 2014, 2015, 2017)
- Reviewer, IEEE EuroVis (2023, 2026)
- Reviewer, IEEE VIS (2025)
- Reviewer, IEEE HICSS (2010)
- Reviewer, IFIP Interact (2017)
- Reviewer, NordiCHI (2018)

Committees, Professional, and Campus Service

Campus Service—College

- Director, University of Maryland, INFO, Undergraduate Research Program (2024–)
- Member, University of Maryland, Human Computer Interaction Masters (HCIM) Program Committee (2024–2025)
- Chair, University of Maryland, iSchool, Ph.D. Program Committee; Doctoral Program Director (2020–2023)
- Chair, University of Maryland, iSchool, Professional-track (PTK) Faculty Search Committee (2021-2022)
- Member, University of Maryland, iSchool, Policies, Curricula and Courses (PCC) Committee (2020–2023)
- Member, University of Maryland, iSchool, Record Preparation Committee (2024-2025)
- Member, University of Maryland, iSchool, Record Preparation Committee (2022-2023)
- Member, University of Maryland, iSchool, Record Preparation Committee (2021-2022)
- Member, University of Maryland, iSchool, Record Preparation Committee (2020-2021)
- Member, University of Maryland, iSchool, Tenured/Tenure-track (TTK) Annual Review Committee (2020, 2021)
- Member, University of Maryland, iSchool, Space Design Committee (2019–2020)
- Member, University of Maryland, iSchool Center for Advances in Data and Measurement (CADM) Committee (2019–2020)
- Member, University of Maryland, iSchool MPowering Health Informatics & Data Science (2017–2018)
- Member, University of Maryland, iSchool, Strategic Planning Committee (2018)
- Member, University of Maryland, Tenured/Tenure-track (TTK) Faculty Search Committee (2017–2018)
- Member, University of Maryland, Human Computer Interaction Masters (HCIM) Program Committee (2017–2019)
- Member, University of Maryland, Research, Centers, and Collaboration (RCC) Committee (2017–2018)
- Member, University of Maryland, Facilities Committee (2017–2018)
- Member, Penn State University, IST, Graduate Advisory Committee (2016–2018)
- Member, Penn State University, IST, HCI Faculty Search Committee (2016–2017)
- Member, Penn State University, IST, Data Science Faculty Search Committee (2015–2016)
- Member, Penn State University, IST, Graduate Recruiting Committee (2014–2015)
- Member, University of Washington, Information School, Ph.D. Admissions Committee (2010–2011)
- Member, University of Washington, Information School, Facilities Committee (2010–2011)

Campus Service—University

- Member, Intellectual Property Committee (2025–2027)
- Reviewer, MPower Early Scholars Investment Fund, Track 2 & 3 (2025–2026)
- Associate Faculty & Founding Member, Social Data Science Center (SoDa) (2020–)
- Member, The Graduate School Policies, Curricula and Courses (PCC) Committee, University of Maryland (2022–2023)
- Member, Graduate Council, University of Maryland (2022–2023)
- Senator, TTK Faculty Representative for the College of Information Studies, University Senate, University of Maryland (2019–2022)
- Member, Penn State University, Driving Digital Innovation Committee (2016)

Mentorship—Guiding Professional Development

- Keke Wu, INFO Faculty Mentor (2025–2026)
- Ido Sivan-Sevilla, INFO Faculty Mentor (2024–2025)
- Stephanie Valencia-Valencia, INFO Faculty Mentor (2024–2025)
- Amanda Lazar, INFO Faculty Mentor (2022–2023)
- Caro Williams-Pierce, INFO Faculty Mentor (2022–2023)

- Hernisa Kacorri, INFO Faculty Mentor (2021–2022)
- Diana Marsh, INFO Faculty Mentor (2021–2022)
- Sergii Skakun, INFO Faculty Mentor (2020–2021)
- Ge Gao, INFO Faculty Mentor (2020–2021)
- Jasmine Jones, Post-doctoral scholar at University of Minnesota. Faculty mentor (2018–2019)

Leadership Roles in Meetings and Conferences[4]

- General Program Chair for ACM UbiComp (2027)
- Technical Program Chair for ACM UbiComp (2026)
- Associate Chair for ACM CHI Technical Program Committee – Health (2025)
- Distinguished Paper Award Selection Committee for ACM IMWUT (2025)
- Student Research Competition Jury for CHI 2025
- Subcommittee Co-Chair for ACM CHI 2023 Technical Program Committee – Health (2022–2023)
- Subcommittee Co-Chair for ACM CHI 2022 Technical Program Committee – Health (2021–2022)
- Subcommittee Co-Chair for ACM CHI 2021 Technical Program Committee – Health (2020–2021)
- Co-Chair for ACM UbiComp Doctoral Colloquium (2021)
- Program Committee for Health Track at the WebConf (2019)
- Associate Chair for ACM CHI Technical Program Committee – Health (2019)
- Co-Chair for ACM UbiComp Doctoral Colloquium (2019)
- Program Committee Member, BELIV (Beyond time and errors: novel evaluation methods for Information Visualization) Workshop (2018)
- Associate Chair for ACM CHI Technical Program Committee – Health, Accessibility, Aging (2017)
- Associate Chair for Pervasive Health Technical Program Committee (2017)
- Associate Chair for ACM UbiComp Workshop Co-Chair (2017)
- Associate Chair for ACM CHI Technical Program Committee – Specific Applications (2016)
- Associate Chair for Pervasive Health Technical Program Committee (2016)
- Associate Chair for ACM UbiComp Technical Program Committee (2016)
- Program Committee Member, BELIV (Beyond time and errors: novel evaluation methods for Information Visualization) Workshop (2016)
- Associate Chair for ACM CHI Technical Program Committee – Specific Applications (2015)
- Associate Chair for ACM UbiComp Technical Program Committee (2015)
- Associate Chair for ACM UbiComp Workshop, "New Frontiers of Quantified Self" (2015)
- Associate Chair for ACM CHI Workshop Track (2015)
- Associate Chair for ACM CHI Work-in-Progress Track (2014)

Other Non-University Committees, Memberships, Panels, etc.

- JHU AITC Guideline workshop: Consensus Guidelines for Design, Development, Deployment, and Evaluation of Generative AI Tools for Older Adults. Participant (2025)
- Member, Association of Computing Machinery (ACM) (2008-Present)
- Member, American Medical Informatics Association (AMIA) (2013-Present)
- Technical Expert Panelist, Agency for Healthcare Research and Quality (AHRQ)-funded project, "*Advancing the Collection and Use of Patient-Reported Outcomes Through Health Information Technology*" (2018-Present)

[4] Subcommittee Co-Chairs for CHI Health oversee about 200 papers per year for the annual conference serving the role of an editor-in-chief (e.g., recruiting Associate Chairs, chairing technical program committee meetings). Associate Chairs for these conferences typically handle 10-20 papers serving the role of an editor (e.g., recruiting external reviewers, participating in review panel meetings, leading discussions, and writing meta-reviews) or a reviewer.

Other—Volunteer

- Student Volunteer, ACM CHI Conference (2009, 2010)
- Student Volunteer, Design & Emotion Conference (2010)
- Seminar Coordinator, University of Washington DUB weekly seminar (Summer 2011)

Non-Research Presentations

Outreach Presentations

- Panelist, *"Trust and Responsibility in Design"* UXTerp World Interaction Design Day event (September 2019)
- Organizer, *"Come and talk to Alexa to find out what she knows!"* City of College Park Senior Committee/Explorations on Aging Event. College Park, Maryland (April 2019)
- Organizer, Washington DC Quantified Self Meetup. College Park, Maryland (June 2018)
- Speaker, *"On-the-go Productivity Tracking with OmniTrack"* Washington DC Quantified Self Meetup. Baltimore, Maryland (October 2017)
- Panelist, UbiComp 2015: Broadening Participation Workshop. Osaka, Japan (September 2015)