EUN KYOUNG CHOE

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About

Eun Kyoung Choe is an assistant professor at University of Maryland's College of Information Studies. Her main research areas are Human-Computer Interaction and Health Informatics. She designs, develops, and evaluates technology to help people become empowered individuals and make positive behavior changes through fully leveraging their personal data. She explores this topic in various contexts including the Quantified Self community, sleep and exercise, patient-clinician communication and data sharing, and personal data insights and visualization.

Education

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

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

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

Employment

07/2017 – Present **University of Maryland,** College Park, MD
Assistant Professor, College of Information Studies
Affiliate Assistant Professor, Department of Computer Science (02/2018 –)

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

09/2008 – 08/2014 **University of Washington**, Seattle, Washington
PhD Student (Graduate Research Assistant/Graduate Teaching Assistant)

06/2012 – 09/2012 **Microsoft Research,** Redmond, Washington
Research Intern, working with Dr. Jaeyeon Jung and Dr. Bongshin Lee

06/2010 – 09/2010 **Intel Lab,** Seattle, Washington
Research Intern, working with Dr. Sunny Consolvo, Dr. Jaeyeon Jung, Dr. Beverly Harrison

07/2008 – 09/2008 **Google**, Kirkland, Washington
User Experience Design Intern, working with Adam Barker

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

Honors and Awards

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 *(declined)*
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	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]
2013–2014	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)
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)

Publications

Journal Papers (Peer Reviewed)

[j5] Kim, Y-H., Jeon, J.H., Lee, B., Choe, E.K., & Seo, J. (2017).
A Flexible Self-Tracking Approach Leveraging Semi-Automated Tracking.
Proc. ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) 1(3): Article 67, 28 pages.

[j4] 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) 37(2): 12–18.

[j3] 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.

[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.

[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.

Conference Papers (Peer Reviewed)

[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.
Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '18). [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.
Proceedings of the ACM Conference of Human Factors in Computing Systems (CHI '18). *To appear.*

[c19] Hiniker, A., Lee, B., Sobel, K., Choe, E.K. (2017)
Plan and Play: Supporting Intentional Media Use in Early Childhood.
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.
Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17). [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.
Proceedings of the EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17). [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.
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.
Proceedings of IEEE Pacific Visualization (PacificVis '17).

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

[c13] Kim, Y., Jeon, J.H., Choe, E.K., Lee, B., Kim, K., & Seo, J. (2016).
TimeAware: Leveraging Framing Effects to Enhance Personal Productivity.
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.
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.
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.
Proceedings of the American Medical Informatics Association (AMIA '13).
[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.
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.
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.
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.
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.
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.
Proceeding of the International Health Informatics Symposium (IHI '10): 555–564.

[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.
Proceedings of the International Health Informatics Symposium (IHI '10): 497–501.

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

[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).

Conference Posters & Extended Abstracts (Peer Reviewed)

[p7] Smolyak, D., Lee, B., & Choe, E.K. (2018)
TandemTrack: Promoting Consistent Exercise Leveraging Multimodal Training and Tracking.
Late Breaking Work track, ACM Conference of Human Factors in Computing Systems (CHI '18). *To appear.*

[p6] 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).

[p5] 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.

[p4] 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 Conference on Human Factors in Computing Systems (CHI '15).

[p3] 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.

[p2] 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 Conference on Human Factors in Computing Systems (CHI '10).

[p1] 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 Conference on Human Factors in Computing Systems (CHI '09), 3733-3738.

Doctoral Colloquium Papers (Refereed)

[dc1] Choe, E.K. (2011).
Design of Persuasive Technologies for Healthy Sleep Behavior.
International Conference on Ubiquitous Computing (UbiComp '11), Doctoral Colloquium, 507–510.

Organized Workshop (Refereed)

[ow3] Lee, B., Brehmer, M., Isenberg, P., Choe, E.K., Langner, R., & Dachselt, R. (2018).
Data Visualization on Mobile Devices.
Proceedings of the ACM Conference of Human Factors in Computing Systems (CHI '18).

[ow2] Choe, E.K., Fitzpatrick, G., Lee, B., & Wilcox, L. (2017).
Leveraging Patient-Generated Data for Collaborative Decision Making in Healthcare.
Proceedings of the 11th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '17).

[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.
Proceedings of the International Conference on Ubiquitous Computing (UbiComp '12).

Workshop Papers

[w10] Choe, E.K., Lee, B., & Hwang, S. (2018).
Personal Data Exploration with Speech on Mobile Devices.
AVI 2018 Workshop on Multimodal Interaction for Data Visualization.

[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

[w8] Choe, E.K., Lee, B., & Kientz, J.A. (2014).
Personal Visual Analytics for Self-monitoring
DIS 2014 Workshop on "A Personal Perspective on Visualization and Visual Analytics."

[w7] Choe, E.K. (2012).
Visual Framing: Nudging Toward Health Behavior Change.
AMIA 2012 Workshop on Interactive Systems in Healthcare (WISH).

[w6] Gilbert, M., Choe, E.K., Lee, M.J., & Kientz, J.A. (2012).
Firefly: Designing a Game for Promoting Relaxation Before Sleep.
AMIA 2012 Workshop on Interactive Systems in Healthcare (WISH).

[w5] Kay, M., Choe, E.K., & Kientz, J.A. (2012).
Evaluating Zeo and Fitbit for Tracking Sleep Behaviors
UbiComp 2012 Workshop on "Evaluating Off-the-Shelf Technologies for Personal Health Monitoring: A Hands-On Workshop."

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

[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.
CHI 2011 Workshop on "Personal Informatics & HCI: Design, Theory, & Social Implications."

[w2] Landry, B.M., Kientz, J.A., & Choe, E.K. (2010).
Post Traumatic Stress Disorder: Issues and Opportunities.
CHI 2010 Workshop on Interactive Systems in Healthcare (WISH).

[w1] Choe, E.K., Duarte, M., & Kientz, J.A. (2010).
Empathy in Health Technologies.
CHI 2010 Workshop on Interactive Systems in Healthcare (WISH).

Technical Report

[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. (2013).

Teaching Experience

University of Maryland, College Park (Instructor)

Graduate Level
INST 631: Fundamentals of Human-Computer Interaction Fall 2017

Pennsylvania State University (Instructor)

Graduate Level

IST 520: Foundations of Human-Centered Design	Spring 2017
IST 597-003: Design Thinking for Health Technologies	Fall 2016

Undergraduate Level

IST 110S: Information, People, and Technology Seminar	Fall 2015; Spring 2016
IST 331: Organization and Design of Information Systems: User and System Principles (Intro to HCI course)	Spring 2015; Spring 2016

Seoul National University, Seoul, Korea (Instructor)

Graduate Level

Special Lecture Series on *Foundations of Human-Computer Interaction*	Winter 2016

Yonsei University, Seoul, Korea (Instructor)

Graduate Level

Special Lecture Series on *Human-Computer Interaction and Design Thinking*	Winter 2014

University of Washington, Seattle, Washington (Teaching Assistant)

INFO 490A/B, Project Capstone I/II — Winter 2012; Spring 2012; Winter 2013; Spring 2013
Worked with Prof. Andrew J. Ko and Prof. Wanda Pratt

- Advised 20 undergraduate capstone project teams over 2 years
- Advised on writing a project proposal, scoping projects, designing and building information systems, designing posters, writing abstracts, and giving presentations

IMT 540 A/C, Design Methods for Interaction and Systems — Fall 2011
Worked with Prof. Julie A. Kientz and Prof. David Hendry

- Outlined project deliverables, guided students in a class project, graded assignments, and led a weekly design critique session

INSC 546, Assistive Technology & Inclusive Design — Spring 2010
Worked with Prof. Julie A. Kientz

- Assisted in planning the syllabus, reading list, and course assignments on universal design, inclusive design, and assistive technology

INFO 360, User-Centered Design — Spring 2009
Worked with Prof. Julie A. Kientz and Prof. David Hendry

- Designed lab materials and led lab sections on affinity diagramming, ideation & brainstorming, paper prototyping, heuristic evaluation, and advanced prototyping

University of California, Berkeley, California (Teaching Assistant)

I213, User Interface Design and Development — Spring 2008
Worked with Prof. Tapan Parikh

- Assisted in writing assignments, advised students' class projects, and graded assignments

I141, Search Engines: Technology, Society, and Business Fall 2007
Worked with Prof. Marti Hearst

- Assisted in writing assignments, held office hours, and graded assignments

Student Supervision

Research Advisees

08/2015–present	**Yuhan Luo,** Penn State IST MS Student (2015–2017); UMD iSchool PhD Student (2017–).
08/2017–present	**Shankar Ramesh,** UMD iSchool HCIM Student (expected. May 2018)
08/2017–present	**Daniel Smolyak,** UMD Computer Science Undergraduate Student.
08/2015–03/2017	**Haining Zhu**, Penn State IST PhD Student.
09/2016–12/2016	**Ning Ma,** Penn State IST MS Student.
10/2016–05/2017	**Pratik Agarwal,** Penn State IST MS Student.
08/2015–05/2017	**Hyehyun Park,** Penn State IST Undergraduate Student.
01/2015–05/2017	**Natalie Cope,** Penn State IST Undergraduate Student.
01/2016–05/2017	**Olivia Richards,** Penn State Mathematics Undergraduate Student.
01/2015–05/2015	**Jihyun Oh,** Penn State IST Undergraduate Student.
03/2013–06/2013	**Nicole B. Lee,** UW HCDE MS student. Currently at 18F. Co-authored [c11].
02/2010–02/2011	**Michael Gilbert,** UW iSchool MSIM student. Currently at Google. Co-authored [w6].
09/2009–05/2010	**Susan Oldham**, UW iSchool Undergraduate. Currently a Freelancer. Co-authored [c3].
09/2009–05/2010	**Amanda Fonville,** UW iSchool MSIM student. Currently at Microsoft. Co-authored [c3][c4][p2].

Internal Thesis Committees (non-advisees)

2017–Present	**Kenyon Crowley,** Ph.D. Thesis Proposal Committee, UMD iSchool.
2018	**Sigfried Gold,** Ph.D. First Year Review Committee, UMD iSchool.
2018	**Rebecca Stone,** M.S. Thesis Committee, UMD iSchool HCIM.
2018	**Alisha Pradhan,** M.S. Thesis Committee, UMD iSchool HCIM.
2017	**Andrea Julca,** Ph.D. First Year Review Committee, UMD iSchool.
2016–2017	**Jiawei Chen,** Ph.D. Dissertation Committee, Penn State IST.
2016–2017	**Na Sun,** Ph.D. Dissertation Committee, Penn State IST.
2016–2017	**Chulakorn Aritajati,** Ph.D. Dissertation Committee, Penn State IST.
2015–2017	**Elizabeth Eikey,** Ph.D. Dissertation Committee, Penn State IST.
2016	**Jun Ge,** M.S. Thesis Committee, Penn State IST.
2015	**Justin G Roth,** Undergraduate Honors Thesis Committee, Penn State IST.

External Ph.D. Committees

2015–present	**Allison Doub,** Ph.D. Dissertation Committee, Penn State Human Development and Family Studies.
2016	**Manal Almalki,** Ph.D. Dissertation Committee, University of Melbourne.
2016	**Dandan Huang,** Ph.D. Dissertation Committee, University of Victoria.

Invited Talks and Seminars

1. *Facilitating Self-Reflection on Personal Health Data*
   Johns Hopkins University, February 2018.
2. *Facilitating Self-Reflection on Personal Health Data*
   Medstar Institute for Innovation, Washington DC, January 2018.
3. *Designing for Personal Data Reflection*
   Seoul National University. December 2017.
4. *Participatory Design in Healthcare: Bringing Patients & Clinicians into the Design Process*
   Hershey Medical Center. July 2017.
5. *Empowering People through Self-Tracking and Personal Data Visualization*
   Northwestern University; University of Maryland. February 2017.
6. *Empowering People through Self-Tracking and Visual Data Exploration*
   KAIST, Computer Science HCI Colloquium Series. December 2016.
7. *Personal Informatics: Empowering People through Self-knowledge and Reflection.*
   Penn State, Biobehavioral Health Colloquium Series. October 2016.
8. *Empowering People to Improve Their Lives Leveraging Self-Tracking Data.*
   University of Arizona, Colloquium Speaker. May 2016.
9. *What Can We Learn from the Quantified Self Movement?*
   Kentucky Conference on Health Communication, Distinguished Speaker. April 2016.
10. *Persuasive Performance Feedback: How to Leverage the Framing Effect in Designing Self-Monitoring Technology*.
    University of Michigan, School of Information, MISC Talk. December 2015.
11. *Quantified Self Movement: From Personal Data to Visualization Insights.*
    SKKU, iSpeaker Distinguished Lecture. May 2015.
12. *Self-monitoring Technology for Data Capture and Reflection*.
    Penn State, Sleep Research Conference. February 2015.
13. *Quantified-Self.*
    Penn State, IST 497E Guest Lecture. February 2015.
14. *Design for Change: Self-monitoring Technology for Data Capture and Reflection.*
    Seoul National University, Computer Science. December 2014.
15. *Design for Change: Self-monitoring Technology for Data Capture and Reflection.*
    Postech, Computer Science. December 2014.
16. *Design for Change: Self-monitoring Technology for Data Capture and Reflection.*
    KAIST, Industrial Design. December 2014.
17. *Quantified Self: Knowledge through Data Collection and Reflection.*
    Penn State, IST 110H Guest Lecture. November 2014.
18. *Designing Self-monitoring Technology to Promote Healthy behaviors*.
    Penn State IST. March 2014.
19. *Designing Self-monitoring Technology to Promote Healthy behaviors*.
    University of Washington, DUB Seminar. February 2014.
20. *Visual Framing: Nudging Toward Better Privacy Decisions*.
    Microsoft Research. August 2012.
21. *Investigating Receptiveness to Sensing and Inference in the Home Using Sensor Proxies*.
    University of Washington, DUB Seminar. August 2012.

Grants

1. National Science Foundation. *CAREER: Advancing Personal Informatics through Semi-Automated and Collaborative Tracking.* (2017–2022). Choe, E.K. (PI). $546,348.
2. Nokia. University Donation Program. *Leveraging Personal Health Data for Collaborative Medical Decision Making.* (2016). Choe, E.K. (PI). €25,000. [Declined].
3. Penn State College of IST Seed Grant. *Intergenerational Collaborative Health Tracking*. (2016–2017). Choe, E.K. (PI), Carroll, J.M. (Co-PI). $29,701.
4. National Science Foundation. *CRII:CHS: Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing.* (2016–2017). Research Experiences for Undergraduate Supplement, Choe, E.K. (PI), $16,000.
5. National Science Foundation. *CRII:CHS: Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing.* (2015–2017). Choe, E.K. (PI). $175,000.
6. Microsoft Research. *Visualized Self: Empowering People to Improve Their Lives Leveraging the Data About Themselves.* (2015). Choe, E.K. (PI). $40,000.
7. Penn State IST. College Seed Grant. *Enhancing Patient-Clinician Communication through Self-Monitoring Data Sharing.* (2014). Choe, E.K. (PI), Sawyer, A.M. (Co-PI), Reddy, M. (Co-PI). $9,580.

Professional Society and Services

PROFESSIONAL SOCIETY MEMBERSHIPS	Association of Computing Machinery (ACM) (2008-present) American Medical Informatics Association (AMIA) (2013-present)
EDITORIAL BOARD	ACM IMWUT Associate Editor (2017–)
TECHNICAL PROGRAM COMMITTEE	ACM CHI Technical Program Committee – Health, Accessibility, Aging (2017) ACM CHI Technical Program Committee – Specific Applications (2016) ACM CHI Technical Program Committee – Specific Applications (2015) Pervasive Health Technical Program Committee (2017) Pervasive Health Technical Program Committee (2016) ACM UbiComp Workshop Co-Chair (2017) ACM UbiComp Technical Program Committee (2016) ACM UbiComp Technical Program Committee (2015) ACM UbiComp Workshop, New Frontiers of Quantified Self Program Committee (2015) ACM CHI Workshop Committee (2015) ACM CHI Work-in-Progress Committee (2014)
UNIVERSITY & DEPARTMENTAL SERVICE	University of Maryland, Faculty Search Committee (2017–2018) University of Maryland, Human Computer Interaction Masters (HCIM) Program Committee (2017–2018) University of Maryland, Research, Centers, and Collaboration (RCC) Committee (2017–2018) University of Maryland, Facilities Committee (2017–2018) Penn State University, Driving Digital Innovation Committee (2016) Penn State University, IST, Graduate Advisory Committee (2016–2018) Penn State University, IST, HCI Faculty Search Committee (2016–2017) Penn State University, IST, Data Science Faculty Search Committee (2015–2016) Penn State University, IST, Graduate Recruiting Committee (2014–2015) University of Washington, Information School, Ph.D. Admissions Committee (2010–2011) University of Washington, Information School, Facilities Committee (2010–2011)

PAPER REVIEWING	(2017 Calendar Year: 59 papers total) ACM CHI (21 papers) ACM CSCW (1 paper) ACM IMWUT (18 papers) ACM UbiComp Workshop (7 papers) ACM ToCHI (1 paper) Communications of the ACM (CACM) (1 paper) INTERACT (1 paper) JMIR (1 paper) Pervasive Computing (1 paper) PervasiveHealth (6 papers) Psychology of Sport and Exercise (1 paper)
	ACM CHI (2010, 2011, 2012, 2013, 2014, 2018) ACM CSCW (2014, 2015, 2016, 2017, 2018) ACM DIS (2012, 2014) ACM IMWUT (2017) ACM Mobile HCI (2015) ACM Pervasive (2012) ACM ToCHI (2015, 2017, 2018) ACM UbiComp (2011, 2014) ACM UIST (2013, 2015) Communications of the ACM (2017, 2018) AMIA (2013, 2016) EAI Pervasive Health (2010, 2012, 2014, 2015) IEEE HICSS (2010) IEEE Pervasive Computing (2011) IEEE InfoVis (2014) IFIP Interact (2017) JAMIA (2015) Journal of Medical Internet Research (2017) Pervasive and Mobile Computing (2014) Taylor & Francis Human-Computer Interaction (2014, 2015, 2016) International Workshop on Evaluation in Visualization (BELIV 2016)
GRANT REVIEWING	National Science Foundation Review Panelist (2018) National Science Foundation Review Panelist (2016) National Science Foundation Review Panelist (2015)
STUDENT VOLUNTEER	ACM CHI (2009, 2010) Design & Emotion (2010) DUB weekly seminar coordinator (Summer 2011)