

Nur Yildirim

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Education

- 08/2018 – **Carnegie Mellon University** **Pittsburgh, PA, USA**
06/2024 (expected) Ph.D. in Human-Computer Interaction
School of Computer Science
Thesis: Discovering the Right Human Experiences to Design with Artificial Intelligence
Advisors: John Zimmerman and James McCann
Committee: Jodi Forlizzi (HCI Institute), Kayur Patel (Apple AI/ML)
- 06/2007 – **Middle East Technical University** **Ankara, Turkey**
09/2014 M.Sc. in Industrial Design (Informatics track)
B.ID. in Industrial Design

Experience

- 06/2022 – **Google People + AI Research** **Cambridge, MA, USA**
08/2022 Research Intern (Mentors: Fernanda Viegas, Martin Wattenberg)
Investigated how practitioners use the People + AI Guidebook in AI projects. Conducted interviews with designers and product managers (30+ participants) across 14 organizations. Performed qualitative analysis of transcripts. Project resulted in a CHI 2023 publication.
- 03/2020 – **Accenture Technology Labs** **Remote**
02/2021 Research Lead on Sponsored Research (Mentors: Alex Kass, Teresa Tung)
Led Accenture-CMU collaborative research project investigating how design practitioners effectively envision AI innovations. Conducted co-design workshops with cross-functional AI teams (20+ participants). Performed qualitative analysis of transcripts. Project resulted in a CHI 2022 publication.
- 06/2011 – **Designnobilis** **Ankara, Turkey**
07/2018 Industrial Designer
Managed projects ranging from consumer electronics to assistive robots, microfluidics, transportation, lighting and toys. Shipped 25+ products along with several patents and design awards.

Peer-Reviewed Conference Publications

- [C.6] **Nur Yildirim**, Changhoon Oh, Anna Elise Wong, Nina Crosby Walton, Violet Turri, Deniz Sayar, James McCann, Jodi Forlizzi, John Zimmerman. Creating Design Resources to Scaffold the Ideation of AI Concepts. In *Proceedings of the 2023 Designing Interactive Systems Conference (DIS'23)*. Pittsburgh, USA.
- [C.5] Wesley Hanwen Deng, **Nur Yildirim**, Monica Chang, Motahhare Eslami, Kenneth Holstein, Michael Madaio. Uncovering the Practices and Opportunities for Cross-functional Collaboration around AI Fairness in Industry Practice. (to appear at **FAccT'23**)
- 🏆 [C.4] **Nur Yildirim**, Mahima Pushkarna, Nitesh Goyal, Martin Wattenberg, Fernanda Viegas. Investigating How Practitioners Use Human-AI Guidelines: A Case Study on the People + AI Guidebook. In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI'23)*. Hamburg, Germany. **Best Paper Honorable Mention.**
- [C.3] **Nur Yildirim**, Alex Kass, Teresa Tung, Connor Upton, Donnacha Costello, Robert Giusti, Sinem Lacin, Sara Lovic, James O'Neill, Rudi O'Reilly Meehan, Eoin Ó Loideáin, Azzurra Pini, Medb Corcoran, Jeremiah Hayes, Diarmuid Cahalane, Gaurav Shivhare, Luigi Castoro, Giovanni Caruso, Changhoon Oh, James McCann, Jodi Forlizzi, John Zimmerman. How Experienced Designers of Enterprise Applications Engage AI as a Design Material. In *Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI'22)*. New Orleans, LA, USA.

- [C.2] **Nur Yildirim**, Matthew Franklin, Daniel Zeng, John Zimmerman, James McCann. metaSVG: A Portable Exchange Format for Adaptable Laser Cutting Plans. In *Proceedings of the 2022 Graphics Interface Conference (GI'22)*. Montreal, Canada.
- [C.1] **Nur Yildirim**, James McCann, John Zimmerman. 2020. Digital Fabrication Tools at Work: Probing Professionals' Current Needs and Desired Futures. In *Proceedings of the 2020 CHI Conference on Human Factors in Computing Systems (CHI'20)*. Honolulu, HI, USA.

Workshop, Symposia, and Extended Abstracts

- [W.3] **Nur Yildirim**. 2022. Emergent HCI Approaches to Envisioning with Generative AI Capabilities. In *Joint Proceedings of CHI '22 Workshop on Generative AI and HCI*. New Orleans, LA, USA.
- [W.2] **Nur Yildirim**. 2022. Developing Design Tools to Support Envisioning with Data and AI. In *Joint Proceedings of CHI '22 Workshop on InContext: Futuring User-Experience Design Tools*. New Orleans, LA, USA.
- [W.1] **Nur Yildirim**, John Zimmerman, Sarah Preum. 2021. Technical Feasibility, Financial Viability, and Clinician Acceptance: On the many challenges to AI in Clinical Practice. In *Proceedings of The AAAI 2021 Fall Symposium on Human Partnership with Medical Artificial Intelligence*. Virtual Event.

Journal Publications and Book Chapters

- [J.2] Jodi Forlizzi, Qian Yang, Changhoon Oh, **Nur Yildirim**, John Zimmerman. Designing AI Products and Services: Benefits, Challenges, and Ideas for Improving Design Practice. To appear in *the Human-Centered Machine Learning book*.
- [J.1] **Nur Yildirim**. 2019. Marker Rendering Techniques. In *Creative Sketching in Product Design*. Ed. Shijian, L., Qiumei, L. SendPoints Publishing, Hong Kong.

Magazine Articles

- [M.1] John Zimmerman, Changhoon Oh, **Nur Yildirim**, Alex Kass, Teresa Tung, Jodi Forlizzi. 2021. UX Designers Pushing AI in the Enterprise: A Case for Adaptive UIs. *Interactions* 28, 1 (December 2020), 72-77.

Invited Talks

- 2022 **Envisioning AI Products with AI Capabilities + Examples**
Microsoft Research Metaphors for Human-AI Interaction Workshop (Invited Talk)
Host: Siân Lindley (MSR Cambridge, UK)
- 2022 **AI Design Sprints: Facilitating Collective Ideation of Human-Centered AI Products**
Google (Invited Talk)
Host: Clara Kliman-Silver, Tiffany Kneareem (Material Design)
- 2019 **Design Sketching Workshop**
College of Design, University of Minnesota
Host: Barry Kudrowitz

Awards and Honors

- 2023 **CHI 2023 Best Paper Honorable Mention [C.4]**
- 2022 **Center for Machine Learning and Health**, Translational Fellowship in Digital Health
- 2021 **CRA-W Graduate Cohort for Women**
- 2012 **International Design Awards**, Emerging Designer of the Year
- 2007-2011 **Undergraduate Scholarship Award** Community Volunteers Foundation

Teaching

- 2022 **05-410/05-610 User-Centered Research and Evaluation (TA)**
Carnegie Mellon University, School of Computer Science
Instructors: Raelin Musuraca and Aniket Kittur
- 2021 **05-674/17-200 Ethics and Policy Issues in Computing (TA)**
Carnegie Mellon University, School of Computer Science
Instructors: James Herbsleb and Laura Dabbish

Service

- 2022-2023 **Associate Chair**
ACM CHI 2023
ACM DIS 2022, DIS 2023
- 2022 **Workshop Team Leader**
OurCS Women in Tech Event for Undergraduates
- 2022 **Programme Committee Member**
ACM CUI Short Papers
- Since 2020 **Reviewer**
ACM CHI, DIS, HRI, CSCW, UIST
- 2020-2021 **Mentor**
CMU Graduate Application Assistance
CMU AI Mentoring Program

References

John Zimmerman (Advisor)

Tang Family Professor of Artificial Intelligence and Human-Computer Interaction
HCI Institute, Carnegie Mellon University
johnnz@cs.cmu.edu

James McCann (Co-Advisor)

Assistant Professor
Robotics Institute, Carnegie Mellon University
jmccann@cs.cmu.edu

Jodi Forlizzi

Geschke Director and Professor
HCI Institute, Carnegie Mellon University
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Alex Kass

Principal Director & Labs Fellow
Accenture Labs
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Last updated: May 4, 2023