Nur Yildirim

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Education

08/2018 – *06/2024* *(expected)*	**Carnegie Mellon University** 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)	**Pittsburgh, PA, USA**
06/2007 – *09/2014*	**Middle East Technical University** M.Sc. in Industrial Design (Informatics track) B.ID. in Industrial Design	**Ankara, Turkey**

Experience

06/2023 – *08/2023*	**Microsoft Research** Research Intern (Mentors: Anja Thieme, Hannah Richardson) I'm designing and studying the integration of large language and vision model capabilities into radiology workflows as part of the Health Futures team.	**Cambridge, UK**
06/2022 – *08/2022*	**Google People + AI Research** Research Intern (Mentors: Fernanda Viegas, Martin Wattenberg) Investigated how practitioners use the People + AI Guidebook in AI projects. Project resulted in a CHI 2023 publication.	**Cambridge, MA, USA**
03/2020 – *02/2021*	**Accenture Technology Labs** Research Lead on Sponsored Research (Mentors: Alex Kass, Teresa Tung) Led Accenture-CMU collaborative research project investigating how design practitioners effectively envision AI innovations. Project resulted in a CHI 2022 publication.	**Remote**
06/2011 – *07/2018*	**Designnobis** 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.	**Ankara, Turkey**

Peer-Reviewed Conference Publications

[C.6] **Nur Yildirim**, Changhoon Oh, Deniz Sayar, Kayla Brand, Supritha Challa, Violet Turri, Nina Crosby Walton, Anna Elise Wong, Jodi Forlizzi, James McCann, John Zimmerman. Creating Design Resources to Scaffold the Ideation of AI Concepts. In *Proceedings of the 2023 Designing Interactive Systems Conference* (**DIS'23**). Pittsburgh, PA, USA. **Best Paper Honorable Mention.**

[C.5] Wesley Hanwen Deng, **Nur Yildirim**, Monica Chang, Motahhare Eslami, Kenneth Holstein, Michael Madaio. Investigating Practices and Opportunities for Cross-functional Collaboration around AI Fairness in Industry Practice. In *2023 ACM Conference on Fairness, Accountability, and Transparency* (**FAccT'23**). Chicago, IL, USA.

[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 Knearem (Material Design)

2019 **Design Sketching Workshop**
College of Design, University of Minnesota
Host: Barry Kudrowitz

Awards and Honors

2023 **DIS 2023 Best Paper Honorable Mention [C.6]**

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, 2024
ACM DIS 2022, 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
johnz@cs.cmu.edu

James McCann (Co-Advisor)
Assistant Professor
Robotics Institute, Carnegie Mellon University
jmccann@cs.cmu.edu

Jodi Forlizzi
Geschke Director and Professor
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