

Nur Yıldırım

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Academic Positions

08/2024 – **University of Virginia** **Charlottesville, VA, USA**
Assistant Professor
School of Data Science

Education

08/2018 – **Carnegie Mellon University** **Pittsburgh, PA, USA**
07/2024 Ph.D. in Human-Computer Interaction
School of Computer Science

2014 – **Middle East Technical University** **Ankara, Turkey**
M.Sc. in Industrial Design
B.ID. in Industrial Design

Experience

06/2023 – **Microsoft Research** **Cambridge, UK**
08/2023 Research Intern (with Anja Thieme, Hannah Richardson – Health Futures)
Designed clinically relevant use cases for large language and vision model capabilities in radiology [C.9].

06/2022 – **Google People + AI Research** **Cambridge, MA, USA**
08/2022 Research Intern (with Fernanda Viegas, Martin Wattenberg, Mahima Pushkarna)
Investigated how practitioners use the People + AI Guidebook in AI projects [C.4].

03/2020 – **Accenture Labs** **Remote**
02/2021 Research Lead on Sponsored Research (with Alex Kass, Teresa Tung)
Investigated how design and data science teams effectively envision AI innovations [C.3].

06/2011 – **Design Consultancy** **Ankara, Turkey**
07/2018 Industrial Designer
Designed products 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.9] **Nur Yıldırım**, Hannah Richardson, Teo Wetscherek, Junaid Bajwa, Joseph Jacob, Mark Pinnock, Stephen Harris, Daniel Coelho de Castro, Shruthi Bannur, Stephanie Hyland, Pratik Ghosh, Mercy Ranjit, Kenza Bouzid, Anton Schwaighofer, Fernando Pérez-García, Harshita Sharma, Ozan Oktay, Matthew Lungren, Javier Alvarez-Valle, Aditya Nori, Anja Thieme. Multimodal Healthcare AI: Identifying and Designing Clinically Relevant Vision-Language Applications for Radiology. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI'24)*. Honolulu, HI, USA.

[C.8] **Nur Yıldırım**, Susanna Zlotnikov, Deniz Sayar, Jeremy Kahn, Leigh Bukowski, Sher Shah Amin, Kathryn Riman, Billie Davis, John Minturn, Andrew King, Dan Ricketts, Lu Tang, Venkatesh Sivaraman, Adam Perer, Sarah Preum, James McCann, John Zimmerman. Sketching AI Concepts with Capabilities and Examples: AI Innovation in the Intensive Care Unit. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI'24)*. Honolulu, HI, USA.

[C.7] **Nur Yıldırım**, Susanna Zlotnikov, Aradhana Venkat, Gursimran Chawla, Jennifer Kim, Leigh Bukowski, Jeremy Kahn, James McCann, John Zimmerman. Investigating Why Clinicians Deviate from Standards of Care: Liberating Patients from Mechanical Ventilation in the ICU. In *Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems (CHI'24)*. Honolulu, HI, USA. **Best Paper Honorable Mention.**

- [C.6] **Nur Yildirim**, Changhoon Oh, Deniz Sayar, Kayla Brand, Supriya 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.4] Frederic Gmeiner, **Nur Yildirim**. 2023. Dimensions for Designing LLM-based Writing Support. In *Joint Proceedings of CHI '23 Workshop on Intelligent and Interactive Writing Assistants*. Hamburg, Germany.
- [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, 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 edited by Rebecca Fiebrink, Marco Gillies, Gonzalo Ramos*.
- [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

- June 2024* **Designing Successful AI Products and Services (with John Zimmerman)**
United States Digital Service
Washington, D.C. (remote)
- Apr 2024* **Designing Successful AI Products and Services**
Goodnotes (Hong Kong & London offices)
zigzag GmbH (Berlin & Stuttgart studios)
- Jan 2024 – Apr 2024* **Closing the AI Innovation Gap**
Apple, Human Centered Machine Intelligence
Drexel University, the Department of Information Science
University of Virginia, the School of Data Science
University of Virginia, the Department of Computer Science
University of Wisconsin–Madison, the Department of Computer Sciences
New York University, the Department of Technology Management and Innovation
- Mar 2024* **Designing Successful AI Products and Services (with John Zimmerman)**
South by Southwest (SXSW)
Austin, TX, USA
- Oct 2023* **Discovering the Right Things to Design with Artificial Intelligence**
University of Michigan – AI Symposium
Host: Anhong Guo, Stella Yu
- Aug 2023* **Exploring Use Cases for Vision-LLMs in Radiology Imaging**
Microsoft
Host: Anja Thieme, Hannah Richardson (Health Futures)
- Oct 2022* **Envisioning AI Products with AI Capabilities + Examples**
Microsoft Research – Metaphors for Human-AI Interaction Workshop
Host: Siân Lindley (MSR Cambridge, UK)
- Aug 2022* **AI Design Sprints: Facilitating Collective Ideation of Human-Centered AI Products**
Google – AI Design Symposium
Host: Clara Kliman-Silver, Tiffany Knearem (Material Design)
- Mar 2019* **Design Sketching Workshop**
University of Minnesota, College of Design
Host: Barry Kudrowitz
- Oct 2017* **Success Stories: From Lab To The Market (Panelist)**
7th Annual International Conference on Managing Intellectual Property in Universities
Bosphorus University, Istanbul

Awards and Honors

- 2024* **CHI 2024 Best Paper Honorable Mention [C.9]**
- 2023* **AI Rising Star**, The Michigan AI Lab, University of Michigan
- 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

- 2024 **05-317/05-617 Design of AI Products and Services (Co-Instructor)**
Carnegie Mellon University – HCI Institute
Instructors: John Zimmerman and Nur Yildirim
- 2023 **Guest Lecture ‘AI Design Ideation’ @ Understanding Human-Centered AI**
The University of Texas at Austin – UT iSchool
Instructor: Min Kyung Lee
- 2022 **Guest Lecture ‘Design Systems’ @ Introduction to HCI**
Carnegie Mellon University – HCI Institute
Instructor: Sauvik Das
- 2022 **05-410/05-610 User-Centered Research and Evaluation (TA)**
Carnegie Mellon University – HCI Institute
Instructors: Raelin Musuraca and Aniket Kittur
- 2021 **05-674/17-200 Ethics and Policy Issues in Computing (TA)**
Carnegie Mellon University – HCI Institute
Instructors: James Herbsleb and Laura Dabbish

Service

- 2022-2023 **Associate Chair**
ACM CHI 2024
ACM DIS 2023
ACM CHI 2023
ACM DIS 2022
- 2022 **Workshop Team Leader**
OurCS Workshop for Undergraduates in Computer Science
- Since 2020 **Reviewer**
ACM CHI*, DIS*, FAccT, HRI, CSCW, UIST, CUI etc.
*2 Special Recognitions for Outstanding Reviews
- 2020-2021 **Mentor**
CMU Graduate Application Assistance
CMU Undergraduate AI Mentoring Program

Recognition for Design Work

- 2019 **International Design Awards**, Infant Products, Call Vision Infant Charm, Gold
- 2019 **International Design Awards**, Children Safety Products, Call Vision Infant Charm, Silver
- 2018 **International Design Awards**, Robotics, Assist On-Arm, Gold
- 2018 **International Design Awards**, Life Science, Assist On-Arm, Bronze
- 2016 **German Design Award**, Packaging, SASA Water, Special Mention
- 2015 **Design et al Yacht and Aviation Awards**, Snow, Finalist
- 2015 **A' Design Award**, Home Appliances, Reverence, Silver
- 2015 **A' Design Award**, Electronic Devices, LeapVox Videophone, Bronze
- 2015 **A' Design Award**, Furniture Accessories, Zavinna, A' Design
- 2015 **German Design Award**, Lifestyle, Creative Wooden Creatures, Nominee
- 2015 **International Design Awards**, Home Electronics, LeapVox Videophone, Silver
- 2014 **A' Design Award**, Hardware and Power Tools, Mini ST Toolset, Silver
- 2014 **A' Design Award**, Packaging, SASA Water, Bronze
- 2014 **A' Design Award**, Packaging, SASA I-Cube, Bronze
- 2014 **German Design Award**, Transportation and Public Space, TAXI Station, Nominee
- 2014 **International Design Awards**, Architecture, TAXI Station, Honorable Mention
- 2014 **International Design Awards**, Urban Design, TAXI Station, Honorable Mention

- 2013 **IDEA**, Leisure and Recreation, Creative Wooden Creatures, Finalist
- 2013 **International Design Awards**, Toys, Creative Wooden Creatures, 3rd Prize
- 2013 **Green Dot Awards**, Products, Creative Wooden Creatures, Honorable Mention
- 2013 **A' Design Award**, Home Appliances, Stream Beam, Bronze
- 2012 **A' Design Award**, Toys and Games, Creative Wooden Creatures, Platinum
- 2012 **A' Design Award**, Yacht and Marine Vessels, Snow, Gold
- 2012 **International Design Awards**, Kitchen Appliances, Stream Beam, 1st Prize
- 2011 **International Design Awards**, Kitchen Appliances, planTree, 2nd Prize

Mentoring

- 2023 – **Aradhana Venkat**
Master's student at the Human-Computer Interaction Institute at Carnegie Mellon University
- 2023 – **Simran Chawla**
Master's student at the Human-Computer Interaction Institute at Carnegie Mellon University
- 2023 – **Jennifer Kim**
Undergraduate student majoring in Business Administration at Carnegie Mellon University
- 2022 – **Kayla Brand**
Undergraduate student majoring in Computer Science at Wellesley College
- 2022 – **Supritha Challa**
Undergraduate student majoring in Computer Science at the University of Wisconsin-Madison
- 2022 – **Shuyu Liu**
Undergraduate student majoring in Design and HCI at Carnegie Mellon University
- 2022 – **Proud Taranat**
Undergraduate student majoring in Design and HCI at Carnegie Mellon University
- 2021 – 2022 **Min Kyoung Lee**
Master's student at the School of Design at Carnegie Mellon University
- 2021 – **Anna Elise Wong**
Undergraduate student majoring in Robotics Engineering at the University of California, Santa Cruz
- 2021 – **Nina Crosby Walton**
Undergraduate student majoring in Design and HCI at Washington University in St. Louis
- 2020 – 2021 **Daniel Zeng**
Undergraduate student majoring in Computer Science at Carnegie Mellon University
- 2020 – 2021 **Matthew Franklin**
Master's student at the Human-Computer Interaction Institute at Carnegie Mellon University

Last updated: July 31, 2024