

Nur Yildirim

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Academic Positions

- 08/2024 – **Assistant Professor, University of Virginia** **Charlottesville, VA, USA**
School of Data Science (primary appointment)
School of Engineering and Applied Science, Department of Computer Science (by courtesy)
School of Medicine, Department of Radiology and Medical Imaging (by courtesy)

Education

- 2024 – **Carnegie Mellon University** **Pittsburgh, PA, USA**
Ph.D. in Human-Computer Interaction
School of Computer Science
- 2014 – **Middle East Technical University** **Ankara, Turkey**
Bachelor of Industrial Design and M.Sc. in Industrial Design

Professional 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].
- 11/2011 – **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.

Selected Awards and Honors

- 2025 **SIGCHI Outstanding Dissertation Award**
- 2024 **EECS Rising Star**
- 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

Peer-Reviewed Conference Publications

- [C.9] **Nur Yildirim**, 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 Yildirim**, 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 Yildirim**, 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.6] 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.5] **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.4] **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.3] **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.
- [W.2] **Nur Yildirim**. 2020. Designing for Human-Centered Automation: A Co-Design Study with Fabrication Professionals. In *Joint Proceedings of CHI '20 Workshop on Automation Experience Across Domains*. Honolulu, HI, USA.
- [W.1] **Nur Yildirim**, James McCann, John Zimmerman. 2019. Redefining Collaboration for Designing Intelligent Systems that Improve Human Experience in the Workspace. In *Joint Proceedings of CHI '19 Workshop on The Future of Work*. Glasgow, UK.

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.

Grants

- [G.6] *LaCross AI Institute Fellowship*. Designing Radiology AI for Enhanced Human + AI Performance. 03/2026 - 03/2027. Total: \$100,000. **Nur Yildirim (PI)**, Luca Cian (Co-PI), Christopher Gaskin (Co-PI).
- [G.5] *School of Data Science Pilot Grant*. Developing A Chatbot to Support Family Dementia Caregivers. 01/2026 - 09/2026. Total: \$20,000. **Nur Yildirim (PI)**, Virginia Gallagher (PI).
- [G.4] *School of Data Science Pilot Grant*. Developing an Interpretable UVA Frontier Model for Grounded Radiology Report Generation. 01/2026 - 09/2026. Total: \$20,000. **Nur Yildirim (PI)**, Chirag Agarwal (PI).
- [G.3] *Data Analytics Center Grant*. Developing an Interpretable UVA Frontier Model for Grounded Radiology Report Generation. 01/2026 - 05/2026. Total: \$10,000. **Nur Yildirim (PI)**, Chirag Agarwal (PI).
- [G.2] *4-VA Collaborative Research Grant*. Developing Interaction Design Patterns and Guidelines for Mitigating Privacy Risks in Generative AI Applications. 06/2025 - 06/2026. Total: \$36,000. **Nur Yildirim (PI)**, Yaxing Yao (Co-PI).
- [G.1] *Center for Machine Learning and Health*. Designing and Evaluating Human-AI Interactions for Increasing Adherence to Standard of Care in the Intensive Care Unit. 01/2023 - 12/2023. Total: \$100,000. **Nur Yildirim (PI)**, John Zimmerman (PI).

Invited Talks

- April 2025* **SIGCHI Outstanding Dissertation Award Talk**
ACM CHI 2025 Conference on Human Factors in Computing Systems.
Yokohama, Japan.
- April 2025* **Rapidly Exploring Use Cases for Multimodal AI in Radiology**
Stanford d.school AI x Culture Summit 2025: Designing Human-AI Teams
Host: Kursat Ozenc
- March 2025* **Designing Multimodal AI Systems for Healthcare**
National Academies of Sciences, Engineering, and Medicine, Beebe Symposium on AI and ML
Host: Daniel Mulrow
- March 2025* **Closing the AI Innovation Gap**
University of Illinois at Urbana-Champaign, School of Information Sciences
Host: Yun Huang
- December 2024* **Closing the AI Innovation Gap**
University of Copenhagen, Department of Computer Science
Host: Tariq Osman Andersen

- December 2024* **Closing the AI Innovation Gap**
University of Southern Denmark, Department of Design, Media, and Educational Science
Host: Jacob Buur
- October 2024* **Closing the AI Innovation Gap**
University of North Carolina at Charlotte
Host: Jason Windett
- September 2024* **Designing Successful AI Products and Services**
United States Department of Homeland Security
Washington, D.C. (remote)
- June 2024* **Designing Successful AI Products and Services**
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)
- Mar 2024* **Designing Successful AI Products and Services**
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

Teaching

- 2026 **DS-7600 Human Centered Design**
University of Virginia – School of Data Science
Instructor: Nur Yildirim
- 2025-2026 **DS-2003 Communicating with Data**
University of Virginia – School of Data Science
Instructor: Nur Yildirim
- 2024 **05-317/05-617 Design of AI Products and Services (Co-Instructor)**
Carnegie Mellon University – HCI Institute
Instructors: John Zimmerman and Nur Yildirim

- 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

- 2022-2026 **Associate Chair**
ACM CHI 2023, 2024, 2025, 2026
ACM DIS 2022, 2023, 2025
- Since 2020 **Reviewer**
ACM CHI*, DIS*, FAccT, HRI, CSCW, UIST, CUI etc.
*6 Special Recognitions for Outstanding Reviews
- 2020-2021 **Mentor**
CMU Graduate Application Assistance
CMU Undergraduate AI Mentoring Program

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