Curriculum Vitae Rafał Kocielnik

PERSONAL DETAILS

Place of birth: Warsaw, Poland
Place of residence: Pasadena, CA
E-mail: rafal.kocielnik@gmail.com
Portfolio: www.rkocielnik.com
Publications: Google Scholar link
Mobile: 206 876 0738

RESEARCH INTERESTS

I bring unique expertise in integrating Human-Centered Research and Design with Applied Machine Learning, centered on two key themes: **advancing AI for social good** and **empowering users to inspect AI systems**. My work spans healthcare, behavior change, workspace productivity, social science, gaming, and education. I am passionate about leveraging cutting-edge AI technologies and theories of human behavior to tackle applied and fundamental challenges while ensuring ethical and inclusive outcomes.

EDUCATION

03.2021 – Present	**Postdoctoral Scholar Research Associate**, **Computing + Mathematical Sciences,** California Institute of Technology, Pasadena, CA, USA Areas: 1) Inspecting Generative AI for Issues of Toxicity and Social Bias, 2) Multimodal and Unsupervised AI in Robot-Assisted Surgery, 3) Promoting Prosocial Behavior and Detecting Toxicity in Online Games Mentors: *Anima Anandkumar, R. Michael Alvarez, Andrew J. Hung*
09.2014 – 03.2021	**PhD in Engineering**, **Human Centered Design & Engineering (HCDE),** University of Washington, Seattle, USA Thesis: *"Designing Engaging Conversational Interactions for Health & Behavior Change"* Committee: *Gary Hsieh, Daniel Avrahami, James Fogarty, Hannaneh Hajishirdzi*
10.2009 – 09.2011	**Professional Doctorate in Engineering (PDEng)**, **User System Interaction**, Eindhoven University of Technology (TU/e), The Netherlands Stress Measurement and Management using Wearable Sensors and Visual Analytics Tools, Tangible Interaction in Medical Domain.
10.2006 – 11.2008	**M.Sc. in Computer Science**, **Affective Computing**, Polish-Japanese Institute of Information Technology, Warsaw, Poland Anthropometric Facial Emotion Recognition using Computer Vision, Machine Learning, and Anthropometric Face Properties.
10.2003 – 10.2006	**B.Sc. in Computer Science**, **Computer Game Programming**, Polish-Japanese Institute of Information Technology Warsaw, Poland Building 3D Game engine in DirectX, GPU coding, and 3D Studio Max

PEER-REVIEWED PUBLICATIONS

2024	**Kocielnik, R.,** Yang, C. H., Runzhuo, M., Steven, Y. C., Wong, E. Y., Chu N. T., Knudsen, J. E., Wager P., Heard J., Ghaffar U., Anandkumar, A., Hung J. A., *"Human AI Collaboration for Unsupervised Categorization of Live Surgical Feedback"*, Nature, npj | Digital Medicine, 2024 (Impact factor: 12.4)
2024	*__Kocielnik, R.,__ *Gupta, A., Wang, J., Nasriddinov, F., Yang, C., Wong, E., Anandkumar, A., Hung J. A., *"Multi-Modal Self-Supervised Learning for Surgical Feedback Effectiveness Assessment"*, Proceedings of the 4th Machine Learning for Health Symposium, 2024 (Acceptance rate: ~32%) **Best Paper Award**

2024 *__Kocielnik, R.__, *Nasriddinov, F., Gupta, A., Yang, C., Wong, E., Anandkumar, A., Hung J. A., "Automating Feedback Analysis in Surgical Training: Detection, Categorization, and Assessment", Proceedings of the 4th Machine Learning for Health Symposium, 2024 (Acceptance rate: ~32%)

2024 **Kocielnik, R.,** Li, Z., Kann, C., Sambrano, D., Morrier, J., Linegar, M., Taylor, C., Kim, M., Naqvie, N., Soltani, F., Dehpanah, A., Cahill, G., Anandkumar, A., Alvarez, Michael R., *"Challenges in Moderating Disruptive Player Behavior in Online Competitive Action Games"*, Frontiers in Computer Science (Impact factor: 2.6)

2024 *__Kocielnik, R.,__ *Han, P., Jiang, R., Saravanan, A. P., Sharir, O., Anandkumar, A., *"ChatGPT Based Data Augmentation for Improved Parameter-Efficient Debiasing of LLMs"*, 1st Conference on Language Modeling (COLM), 2024 (Acceptance rate: ~28%)

2023 **Kocielnik, R.**, Wong, E., Chu, T., Lin, L., Wang, J., Huang, D., Anandkumar, A., Hung, A., *"Deep Multimodal Fusion for Surgical Feedback Classification"*, Proceedings of the 3rd Machine Learning for Health Symposium, 2023 (Acceptance rate: ~32%) **Best Paper Award**

2023 Jiang, R., **Kocielnik, R.,** Saravanan, A. P., Han, P., Alvarez, M.R., Anandkumar, A., *"Empowering Domain Experts to Detect Social Bias in Generative AI with User-Friendly Interfaces"*, NeurIPS workshop on XAI in Action: Past, Present, and Future Applications, 2023

2023 Saravanan, A. P., **Kocielnik, R.,** Jiang, R., Han, P., Anandkumar, A., *"Exploring Social Bias in Downstream Applications of Text-to-Image Foundation Models"*, NeurIPS workshop on I Can't Believe It's Not Better Workshop: Failure Modes in the Age of Foundation Models, 2023

2023 Linegar, M., **Kocielnik, R.**, Alvarez, Michael R., *"Large language models and political science",* Frontiers in Political Science, Volume 5, 2023 (Impact factor: 2.54)

2023 **Kocielnik, R.**, Kangaslahti, S., Prabhumoye, S., Hari, M., Alvarez, R. M., & Anandkumar, A., *"Can You Label Less by Using Out-of-Domain Data? Active & Transfer Learning with Few-shot Instructions."* NeurIPS workshop on Transfer Learning for Natural Language Processing, 2023, New Orleans (Acceptance rate: ~48%)

2022 Laca, J. A., **Kocielnik, R.**, Nguyen, J. H., You, J., Tsang, R., Wong, E. Y., ... Hung, A. J., *"Using Real-time Feedback To Improve Surgical Performance on a Robotic Tissue Dissection Task."* European Urology Open Science Journal (Impact factor: 3.00)

2022 Kocaballi, A.B., Sezgin, E., Clark, L., Carroll, J.M., Huang, Y., Huh-Yoo, J., Kim, J., **Kocielnik, R.**, Lee, Y.C., Mamykina, L., Mitchell, E.G., *"Design and Evaluation Challenges of Conversational Agents in Health Care and Well-being: Selective Review Study."* Journal of Medical Internet Research. 2022 (Impact factor: 7.08)

2022 Inouye, D. A., Ma, R., Nguyen, J. H., Laca, J., **Kocielnik, R.**, Anandkumar, A., & Hung, A. J. *"Assessing the efficacy of dissection gestures in robotic surgery."* Journal of Robotic Surgery 2022 (Impact factor: 2.48)

2022 Kang, H. B., **Kocielnik, R**., Head, A., Yang, J., Latzke, M., Kittur, A., …, Bragg, J. *"From Who You Know to What You Read: Augmenting Scientific Recommendations with Implicit Social Networks."* CHI 2022 (Acceptance rate: ~25%)

2021 **Kocielnik, R**., Langevin, R., George, J. S., Akenaga, S., Wang, A., Jones, D. P., …, Hartzler, A. L. *"Can I Talk to You about Your Social Needs? Understanding Preference for Conversational User Interface in Health."* Conversational User Interfaces 2021 (Acceptance rate: ~33%) **Best Paper Honorable Mention**

2020 Kocaballi, A. B., Quiroz, J. C., Laranjo, L., Rezazadegan, D., **Kocielnik, R.**, Clark, L., ... , Miner, A., *"Conversational agents for health and wellbeing."* CHI 2020 Extended Abstracts

2019 **Kocielnik, R.**, Agapie, E., Argyle, A., …, Hsieh, G., *"HarborBot: a chatbot for social needs screening."* American Medical Informatics Association 2019 (Acceptance rate: ~50%)

2019 **Kocielnik, R.**, Amershi, S., Bennett P.N., *"Will you accept an imperfect AI? Exploring designs for adjusting end-user expectations of AI systems."* CHI 2019 (Acceptance rate: ~24%)

2018 **Kocielnik, R.**, Keyes, O., Morgan T.J., Taraborelli D., McDonald D., Hsieh G., "*Reciprocity and Donations: How Article Topic, Quality and Dwell Time Predict Banner Donation on Wikipedia"*, CSCW 2018 (Acceptance rate: ~30%)

2018 **Kocielnik, R.**, Xiao, L., Avrahami, D., Hsieh, G., "*Reflection Companion: A Conversational System for Engaging Users in Reflection on Physical Activity"*, IMWUT 2018 (Acceptance rate: 28%)

2018 **Kocielnik, R.**, Avrahami, D., Marlow, J., Lu, D., Hsieh, G., "*Designing for Workplace Reflection: A Chat and Voice-Based Conversational Agent"*, DIS 2018. (Acceptance rate: 23%)

2018 Karkar, R., **Kocielnik, R.**, …., Munson, S., Fogarty, J., "*Beacon: Designing a Portable Device for Self-Administering a Measure of Critical Flicker Frequency"*, IMWUT 2018 (Acceptance rate: 28%)

2018 Chen, NC., Drouhard, M., **Kocielnik, R.**, Suh, J., Aragon, C., "*Using Machine Learning to Support Qualitative Coding in Social Science: Shifting the Focus to Ambiguity"*, ACM Transactions on Interactive Intelligent Systems. (Acceptance rate: 24%)

2018 Lu, D., Marlow, J., **Kocielnik, R.**, Avrahami, D., "*Challenges and Opportunities for Technology-Supported Activity Reporting in the Workplace"*, CHI 2018. (Acceptance rate: 26%)

2017 Cranshaw, J., Elwany, E., Newman, T., **Kocielnik, R.**, ... Monroy-Hernández, A., "*Calendar. help: Designing a Workflow-Based Scheduling Agent with Humans in the Loop"*, CHI 2017 (Acceptance rate: 25%)

2017 **Kocielnik, R.**, Hsieh, G., "*Send Me a Different Message: Utilizing Cognitive Space to Create Engaging Message Triggers"*, CSCW 2017 (Acceptance rate: 35%)

2017 Drouhard, M., Chen, NC., Suh J., **Kocielnik, R.**, Pena-Araya, V., Cen K., Zheng X., Aragaon, C., "*Aeonium: Visual Analytics to Support Collaborative Qualitative Coding"*, PacificVis 2017. (Acceptance rate: 29%)

2017 Hong, R., **Kocielnik, R.**, Yoo, MJ., Battersby, S., Kim, J., Aragon, C., "*Designing Interactive Distance Cartograms to Support Urban Travelers"*, PacificVis 2017. (Acceptance rate: 29%)

2017 Chen, N.C., Brooks, M., **Kocielnik, R.**, Hong, SR., Smith, J., Lin, S., Qu, Z., Aragon, C., "*Lariat: A Visual Analytics Tool for Social Media Researchers to Explore Twitter Datasets"*, HICSS 2017. (Acceptance rate: 41%)

2017 Chen, N.C., Brooks, M., **Kocielnik, R.**, Hong, SR., Smith, J., Lin, S., Qu, Z., Aragon, C., "*SparQs: Visual Analytics for Sparking Creativity in Social Media Exploration",* HCII 2017. (Acceptance rate: 45%)

2016 Hsieh, G., **Kocielnik, R.**, "*You Get Who You Pay for: The Impact of Incentives on Participation Bias"*, CSCW 2016. (Acceptance rate: 25%) **Best Paper Award**

2015 **Kocielnik, R.** Sidorova, N., "*Personalized Stress Management: Enabling Stress Monitoring with LifelogExplorer"*, German Journal on Artificial Intelligence 2015. (Impact factor: 2.8)

2013 Ouwerkerk, M., Dandine, P., Bolio, D., **Kocielnik, R.**, Mercurio, J., Huijgen, H., & Westerink, J., "*Wireless multi sensor bracelet with discreet feedback",* Wireless Health 2013. (Acceptance rate: 21%)

2013 **Kocielnik, R.**, Sidorova, N., Maggi, F. M., Ouwerkerk, M., Westerink, J. H., "*Smart technologies for long-term stress monitoring at work"*, Computer-Based Medical Systems (CBMS) 2013. (Acceptance rate: 29%)

2013 **Kocielnik, R.**, Maggi, F. M., & Sidorova, N., "*Enabling self-reflection with LifelogExplorer: Generating simple views from complex data",* PervasiveHealth 2013. (Acceptance rate: 30%)

2013 Bui, V., Verhoeven, R., Lukkien, J., & **Kocielnik, R.,** "*A trust evaluation framework for sensor readings in body area sensor networks"*, BodyNets 2013. (Acceptance rate: 35%)

2012 Bakker, J., Holenderski, L., **Kocielnik, R.**, Pechenizkiy, M., & Sidorova, N., "*Stress@work: From measuring stress to its understanding, prediction and handling with personalized coaching"*, International Health Informatics Symposium 2012. (Acceptance rate: 18%)

2011 Dhillon, B., Banach, P., **Kocielnik, R.**, Emparanza, J. P., Politis, I., Rączewska, A., & Markopoulos, P., "*Visual fidelity of video prototypes and user feedback: a case study",* BritishHCI 2011. (Acceptance rate: 31%)

2011 Dhillon, B., **Kocielnik, R.**, Politis, I., Swerts, M., & Szostak, D., "C*ulture and facial expressions: a case study with a speech interface",* INTERACT 2011. (Acceptance rate: 25%)

2009 Jarkiewicz, J., **Kocielnik, R.**, & Marasek, K., "*Anthropometric Facial Emotion Recognition"*, HCII 2009. (Acceptance rate: ~28%)

LIGHTLY-REVIEWED & PREPRINTS

2022 **Kocielnik, R.**, Prabhumoye, S., Zhang, V., Alvarez, RM., Anandkumar, A., *"AutoBiasTest: Controllable Sentence Generation for Automated and Open-Ended Social Bias Testing in Language Models."* https://arxiv.org/pdf/2302.07371

2021 Prabhumoye, S., **Kocielnik, R.**, Shoeybi, M., Anandkumar, A., & Catanzaro, B., "Few-shot Instruction Prompts for Pretrained Language Models to Detect Social Biases." arXiv preprint arXiv:2112.07868

2018 **Kocielnik, R.**, Hsieh, G., Avrahami, D., "Chapter 7: *Helping Users Reflect on Their Own Health-Related Behaviors"*, Studies in Conversational UX Design, Springer Book series on Human-Computer Interaction 2018

2018 **Kocielnik, R.**, Hsieh, G. "*Facilitating Self-Learning in Behavior Change Through Long-term Intelligent Conversational Assistance"*, Doctoral Consortium paper, IUI 2018

2016 Karkar, R., **Kocielnik, R.**, Zhang, X., Fogarty, J., Ioannou, GN., Munson, SA., Zia, J. "*Towards a Portable, self-administered critical flicker frequency test"*, UbiComp 2016.

2016 Chen, NC., **Kocielnik, R.**, Drouhard, M., Peña, V., Suh, J., Cen, K., Zheng, X., Aragon, C. "*Challenges of Applying Machine Learning to Qualitative Coding"*, Human Centered Machine Learning Workshop at CHI 2016.

2016 **Kocielnik, R.** Hsieh, G. "*Utilizing Cognitive Space and Crowds to Create Diverse and Engaging Behavior Change Triggers"*, ISRII 8 Scientific Meeting.

2014 **Kocielnik, R. "***LifelogExplorer: A Tool for Visual Exploration of Ambulatory Skin Conductance Measurements in Context"*, Measuring Behavior 2014.

2012 **Kocielnik, R.**, Pechenizkiy, M., & Sidorova, N. "*Stress Analytics in Education",* Educational Data Mining 2012. (Acceptance rate: 46%)

PATENTS & PATENT APPLICATIONS

2021 Avrahami, D., Marlow, J., **Kocielnik, R.**, & Lu, D. "Avrahami, Daniel, et al. "Systems and methods for a context-aware conversational agent for journaling based on machine learning." (2021). U.S. Patent No. 11,120,326. Washington, DC: U.S. Patent and Trademark Office.

2021 Ioannou, G., Fogarty, J., Jasmine, Z. I. A., **Kocielnik, R.**, Karkar, R., Munson, S., & Zhang, X. "Methods and systems for self-administered measurement of critical flicker frequency (cff)." (2021). U.S. Patent Application No. 17/014,938.

2019 Hong, S., Yoo, M. J., **Kocielnik, R.**, & Aragon, C. "Generation and presentation of distance cartograms." (2019). U.S. Patent Application No. 16/380,677.

INDUSTRY RESEARCH EXPERIENCE

06.2020 – 12.2020 **Research Intern, Allen Institute for AI, Semantic Scholar Group, Seattle**

- Designed and implemented novel persuasive recommendation explanation strategies on top of real-world Semantic Scholar recommendation service. The service provides recommendations to thousands of users each day.
- Strategies increased click-through rate by 28% and email open rates by 30% and have been integrated into the production system.
- The work resulted in a publication at the top-tier conference (CHI'22).

06.2018 – 09.2018 **Research Intern, Microsoft Research AI, Adaptive Systems and Interaction Group, Redmond**

- Designed, implemented & evaluated 3 designs preparing end-users for AI imperfections.
- The designs resulted in a significant increase in user satisfaction (14.8%) and acceptance (14.7%) of an AI system for automated meeting request detection in free-text emails.
- Quantified that an AI system with the same accuracy, designed with a different focus on error avoidance (avoiding False Positives vs. False Negatives) can lead to vastly different subjective perceptions of accuracy (13.4% difference) and acceptance (10.5%) by users.
- The work resulted in a highly cited publication at the top conference (CHI'19).

06.2017 – 09.2017 **Research Intern, Fuji-Xerox Palo Alto Lab**

- Designed, deployed, and evaluated a mixed-modality (Alexa, Slack) conversational agent called "Robota" (Polish for "work").
- Run a 3-week long deployment with company employees where Robota encouraged users to journal their everyday activities and supported reflection on aspects of professional development.
- We quantified the value of journaling and reflection at work as well as the benefits and challenges of using voice and text for interaction in this setting.
- The internship resulted in DIS'18 and CHI'18 papers as well as a patent.

06.2016 – 09.2016 **Research Intern, Microsoft Research FUSE Labs, Redmond**

- Worked closely with a team of developers, researchers, and designers on an applied research project developing conversational AI for meeting scheduling - Calendar.help.
- Leveraged crowd-sourcing, chatbot design, and NLP in production-quality software.
- The internship resulted in a CHI'17 paper and an implementation in C# and Azure Cloud deployed in production.

10.2011 – 10.2014 **Researcher, Philips Research, EIT ICT Labs**

- Designed and developed a stress coaching application Stress@Work deployed at schools and companies in the Netherlands.
- Developed an online recommender service for an online exercise platform.
- Developed and published a signal processing algorithm for stress level estimation from sensors.
- Wrote reports that secured increasing financing for the project for more than 3 years.

05.2010 – 12.2010 **Design Researcher, Industrial Design, Biomedical Engineering TU/e**

- Connected a medical research application with a 3D optical tracker to enable tangible manipulation of visualization of brain white matter data
- Evaluated the prototype in user studies with medical doctors.

TEACHING

- **Teaching Assistant**, **CS 165: Foundations of Machine Learning and Statistical Inference**, Caltech, CMS - *Winter 2023*

  This course covers core concepts in machine learning and statistical inference including probabilistic models, neural networks, representation theory, and generalization. In statistical inference, the topics covered are detection and estimation, sufficient statistics, Cramer-Rao bounds, Rao-Blackwell theory, variational inference, and multiple testing. In addition to covering the core concepts, the course encourages students to ask critical questions such as: How relevant is theory in the age of deep learning? What are the outstanding open problems?

  TA for a project-based machine learning course, with 20-30 students enrolled. Grading, holding office hours, designing final project proposals and mentoring students in groups.

- **Co-Instructor**, **HCDE 524: Programming Concepts**, the University of Washington, HCDE - *Autumn 2019*

  Foundations of computing - core concepts in programming using interactive graphics applications. For students with no prior experience programming in a high-level language like Java, Python, or C++

  Designing exercises and course materials, leading classes, offering office hours, and grading.

- **Teaching Assistant**, **HCDE 539: Physical Computing and Prototyping**, University of Washington, HCDE - *Autumn 2016, Autumn 2017, Autumn 2018, Winter 2019, Winter, 2020*

  Fundamentals of designing and prototyping human-centered interactive systems and environments that include software and hardware components. Students build projects using electronic devices (Arduino) and fabrication tools (laser cutting, 3D printing). Project-based, studio environment.

  Graduate TA for a project-based physical computing and programming course, with 30-40 students enrolled. Grading, designing teaching materials, leading some full classes. Participated in curriculum reorganization during the COVID-19 pandemic.

- **Teaching Assistant**, **HCDE 530: Computational Concepts in Human-Centered Design & Engineering**, University of Washington, HCDE - *Spring 2020*

  Data analysis computational concepts and programming skills needed to work with interactive systems in HCDE. Draws on topics such as log analysis, visualization, prototyping, and data mining using SciKit Learn and Kaggle. Students analyze data to inform user research and design.

  Graduate TA. Grading, designing programming exercises, and evaluation quizzes, and leading some full classes. Participated in curriculum reorganization during the COVID-19 pandemic.

MENTORING

2024 **Arushi Gupta**, Caltech Undergraduate - co-mentoring with **Peter Wang** during Summer Undergraduate Research Fellowship (SURF)

- Submission to ML4H - *"Multi-Modal Self-Supervised Learning for Surgical Feedback Effectiveness Assessment"*

2024 **Firdavs Nasriddinov**, Caltech Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Submission to ML4H - *"Automating Feedback Analysis in Surgical Training: Detection, Categorization, and Assessment"*

2024 **Tyler Gatewood**, Caltech Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Submission to NeurIPS workshop on *Socially Responsible Language Modelling Research (SoLaR) - "Can You Rely on LLMs to Test Social Bias? Challenges of Synthetic Data for Stereotype Testing"*

2023 **Adhithya Prakash Saravanan**, University of Cambridge Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Publication at NeurIPS workshop - *"Exploring Social Bias in Downstream Applications of Text-to-Image Foundation Models"*

2023 **Roy Jiang**, Caltech Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Publication at NeurIPS workshop - *"XAI in Action: Past, Present, and Future Applications"*

2023 **Barry Han**, Carleton College Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Publication at the Conference on Language Modeling (COLM) - *"ChatGPT Based Data Augmentation for Improved Parameter-Efficient Debiasing of LLMs"*

2023 **Lydia Lin**, Duke University School of Medicine, USC-Caltech MD-PhD Candidate - mentoring during Summer Rotation at USC-Caltech

- Abstract at the Journal of Urology *"Automatic Transcription of Surgical Feedback Using Machine Learning"*

2022 **Sara Kangaslahti**, Caltech undergraduate (currently a graduate student at Harvard) - mentoring for Summer Undergraduate Research Fellowship (SURF)

- Publication at NeurIPS workshop - *"Transfer Learning for Natural Language Processing"*
- Recipient of Carolyn Ash named fellowship
- Finals of Doris S. Perpall SURF Speaking Competition at Caltech (top 7 of 250+)
- Guided a research statement for the NSF Graduate Research Fellowship Program (GRFP)

2022 **Vivian Zhang**, Caltech Undergraduate - mentoring during Summer Undergraduate Research Fellowship (SURF)

- Publication at ICML workshop - *"Challenges in Deployable Generative AI"*

2021 **Inhoo Lee**, Caltech Undergraduate - mentoring for a research project in Health

- Abstract at the Journal of Urology - *"MP41-03 COMPUTER VISION FOR SURGICAL ERRORS DETECTION DURING ROBOTIC TISSUE DISSECTION"*

2018 **Lilian Xiao**, UW Undergraduate - co-mentoring with Gary Hsieh on a research project

- Publication at IMWUT - *"Reflection Companion: A Conversational System for Engaging Users in Reflection on Physical Activity"*

2014 **Sofia Semikina**, Eindhoven University of Technology - Master thesis committee member

- Master thesis - *"Stress Data Visualization"* *https://pure.tue.nl/ws/portalfiles/portal/46962698/774162-1.pdf*

GRANT WRITING EXPERIENCE

2021 Co-authored an NSF grant proposal titled: *"FAI: TRUE AI - Developing Transparent, Representative, User-Friendly, and Equitable AI Systems"* together with *Anima Anadkumar, R. Michael Alvarez, Angui Liu, and Andrew Hung. NSF call:* *https://www.nsf.gov/pubs/2021/nsf21585/nsf21585.htm*

2021 Co-authored a Merkin Innovation Seed Grant proposal at Caltech titled: "AI-based Feedback through Error Detection and Prediction in Robot-Assisted Surgery" as a named collaborator. Merkin Institute for Translational Research call: https://merkin.caltech.edu/request-proposals/merkin-innovation-seed-grants

HONORS & AWARDS

2023 **Best Paper Award**, Machine Learning for Health (ML4H) Conference

2023 Scholarship to attend Future Leaders Summit on *"Responsible Data Science and AI"* (all costs covered). The summit is meant to help young scholars grow as future research leaders in data science and AI. One fellow accepted per university - https://midas.umich.edu/ds-consortium/

2023 Machine Learning for Health (ML4H) panel discussion invitation - "Multimodal AI for Health" - https://ml4h.cc/2023/research_roundtables.html

2021 **Honorable Mention Best Paper Award**, ACM Conversational User Interfaces (CUI) 2021 Conference

2020 Recipient of 2020 Computing Innovation Fellowship (~$150k) from Computing Research Association (CRA) - provided to selected 59 researchers across the U.S. - https://cifellows2020.org/2020-class/

2019 Scholarship to attend Human-Computer Interaction Consortium (HCIC) on *"Future of Work"* (all costs covered). https://hcic.org

2018 SIGAI IUI 2018 Travel Grant ($1000)

2016 **Best Paper Award**, ACM CSCW 2016 Conference

2012 Nominated for the TU/e Design Project Award for the Stress@Work project among other 5 best design projects of 2012

2009 Awarded exchange scholarship at Glyndŵr University in Wales, UK

2008 Awarded Socrates-Erasmus EU student exchange scholarship for studies at the University of Westminster in London

2007 Awarded science scholarship by The Minister of Higher Education

2006 Awarded science scholarship by The Polish Telecommunication Foundation

SERVICE & TALKS

2024 Invited talk at the UT Austin iSchool on "Human-AI Interaction in Health"

2024 Invited talk at the University of Oxford's Future of Tech & Society Discussion Group on "Testing Fairness in Generative AI".

2024 Invited talk at the USC ISI on "Human-AI Interaction: From Supporting Surgical Training to Inspecting Social Bias in LLMs" https://www.isi.edu/events/4976/human-ai-interaction-from-supporting-surgical-training-to-inspecting-social-bias-in-llms/

2024 Programme Committee Member for the Fourth Workshop On Language Technology For Equality, Diversity, Inclusion (Lt-Edi-2024) At Eacl 2024 https://sites.google.com/view/lt-edi-2024/

2023 Participation in SoCal NLP Symposium 2023 at UCLA

2023 Outreach presentation to Pasadena High School Students as part of the Caltech Center for Outreach initiative.

2021 Guest editor for ACM Transactions on Interactive Intelligent Systems Journal special issue on *"Conversational Agents for Healthcare and Wellbeing"* - https://dl.acm.org/doi/10.1145/3532860

2020 Member of organizing committee for CHI 2020 conference - https://chi2020.acm.org/organizing/

2015 Publication Chair of Pervasive Health 2015 conference https://pervasivehealth.eai-conferences.org/2015/show/org-com.html

2013 Co-organized a workshop on stress measurement techniques at the Computer-Based Medical Systems Conference (CBMS)

2013 Presentation of the Stress@Work project at MobileWorld 2013 electronics show in Barcelona, Spain

2012 Presentation of the Stress@Work project at CeBIT 2012 electronics show in Hanover, Germany

2011 Founding member of ACM SIGCHI local chapter in Poland

REVIEWING

2023 Association for Computational Linguistics Rolling Review (ARR), ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW)

2022 ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW), ACM Designing Interactive Systems (DIS), International Conference on Ubiquitous Computing (IMWUT)

2021 ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW), ACM Designing Interactive Systems (DIS), International Conference on Ubiquitous Computing (IMWUT)

2020 ACM Symposium on Virtual Reality Software and Technology (VRST), ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW), ACM Designing Interactive Systems (DIS)

2019 ACM Symposium on User Interface Software and Technology (UIST), ACM Conference on Human Factors in Computing Systems (CHI), ACM Computer-Supported Cooperative Work & Social Computing (CSCW), ACM Designing Interactive Systems (DIS)

LANGUAGES

English Fluent in speaking and writing (TOEFL score: 117/120)

Dutch Basic in speaking, intermediate in reading and writing (level B1)

Polish Fluent; native speaker