

SAUMIK NARAYANAN

CONTACT INFORMATION

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RESEARCH STATEMENT

I am interested in the area of human-AI collaboration. I am developing more powerful human-like models, and leveraging these models to improve human-AI team outcomes, either in the short term (decision-time interventions) or the long term (teaching the human to improve). Then, I aim to understand the interaction dynamics between human and AI, especially in domains of ethical salience where decisions do not have clear answers.

EDUCATION

2020 - CURRENT	Washington University, St. Louis, MO PhD in Computer Science Advisor: Dr. Chien-Ju Ho
2020 - 2022	Washington University, St. Louis, MO MS in Computer Science
2016 - 2019	University of Minnesota, Minneapolis, MN BS in Computer Science, <i>magna cum laude</i> Thesis: "Modeling Network Formation in an Online Health Community" Advisor: Dr. Svetlana Yarosh

RESEARCH EXPERIENCE

2021 - Current	Washington University, St. Louis, MO <i>PhD Student</i>
Summer 2022	Microsoft Research, New York, NY <i>Research Intern</i>
2019 - 2020	Smart Information Flow Technologies, Minneapolis, MN <i>Associate Researcher</i>
Jul - Dec 2019	Smart Information Flow Technologies, Minneapolis, MN <i>Research Intern</i>
2016 - 2019	GroupLens Research, University of Minnesota <i>Student Researcher</i>
Summer 2018	Civic Data Science REU, Georgia Tech <i>Student Researcher</i>

PUBLICATIONS

* denotes equal/alphabetical authorship

Saumik Narayanan, Guanghui Yu, Chien-Ju Ho, Ming Yin. How does Value Similarity affect Human Reliance in AI-Assisted Ethical Decision Making?. *AIES 2023*.

Saumik Narayanan, Kassa Korley, Chien-Ju Ho, Siddhartha Sen. Improving the Strength of Human-Like Models in Chess. *Under review*.

Guanghui Yu, Wei Tang, **Saumik Narayanan**, Chien-Ju Ho. HAIDNet: Encoding Human Behavior in Automated Information Design. *Under review*.

Saumik Narayanan, Guanghui Yu, Wei Tang, Chien-Ju Ho, Ming Yin. How Does Predictive Information Affect Human Ethical Preferences?. *AIES 2022*.

Zachary Levonian, Marco Dow*, Drew Richard Erikson*, Sourijit Ghosh*, Hannah Miller Hillberg*, **Saumik Narayanan***, Loren Terveen, Svetlana Yarosh. Patterns of Patient and Caregiver Mutual Support Connections in an Online Health Community. *CSCW 2020*.

Zachary Levonian, Drew Richard Erikson*, Wenqi Luo*, **Saumik Narayanan***, Sabirat Rubya*, Prateek Vachher*, Loren Terveen, and Svetlana Yarosh. 2020. Bridging Qualitative and Quantitative Methods for User Modeling: Tracing Cancer Patient Behavior in an Online Health Community. *ICWSM 2020* .

Haiwei Ma, C. Estelle Smith, Lu He, **Saumik Narayanan**, Robert A. Giaquinto, Roni Evans, Linda Hanson, and Svetlana Yarosh. 2017. Write for Life: Persisting in Online Health Communities through Expressive Writing and Social Support. *CSCW 2017*.

WORKSHOP PAPERS

Saumik Narayanan, Kassa Korley, Chien-Ju Ho, Siddhartha Sen. Improving the Strength of Human-Like Models in Chess. *NeurIPS 2022*.

PRESENTATIONS

Nic Alton*, **Saumik Narayanan***, April Gadsby, Chris Le Dantec, Kari Watkins. Feasibility of Low-Cost Air Quality Sensors for Mobile Emissions Analysis. *CARTEEH 2019*

TALKS

Augmenting Human Work with AI. *St. Mary's University 2022*

MENTORING

Zongzhe Xu. Evaluating Maia on Lichess tactics. *Spring 2022*

Herbert Zhou. Curriculum learning for Maia models. *Summer 2021*

Moises Daboin. Predicting human movetime usage in chess. *Summer 2021*

AWARDS

NSF REU Undergraduate Research Fellowship (Spring 2019)

NSF Civic Data Science REU (Summer 2018)

Undergrad Research Opportunities Program, University of Minnesota (Fall 2017)

LEADERSHIP EXPERIENCE

Jul - Nov 2020 | *Chief Organizer*, States Chess Cup

2019 - 2020 | *Board Member*, Minnesota State Chess Association

2017 - 2018 | *President*, University of Minnesota Chess Club

SKILLS

Languages Python, Javascript, Lisp, R, Java, Matlab, C, C++

Tools Pandas, PyTorch, Tensorflow, Tableau, React, Flask, LaTeX