

# SAUMIK NARAYANAN

## CONTACT INFORMATION

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## RESEARCH STATEMENT

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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). I am also exploring the ethical side of human-AI teamwork, and work to better understand how humans use AI assistance in domains without ground-truth.

## EDUCATION

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

## RESEARCH EXPERIENCE

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

## PUBLICATIONS

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\* denotes equal/alphabetical authorship

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

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

**Saumik Narayanan**, Guanghai 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

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

## PRESENTATIONS

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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

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

## MENTORING

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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

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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

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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

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**Languages** Python, Javascript, Lisp, R, Java, Matlab, C, C++  
**Tools** Pandas, PyTorch, Tensorflow, Tableau, React, Flask, LaTeX