



Yim Lucky Register

THE FUTURE OF AI CAN BE KIND

pronouns: they/them

yreg@uw.edu | [yimregister.github.io](https://github.com/yimregister) | [YimRegister](https://www.yimregister.com) | [@yimregister](https://twitter.com/yimregister)

Education

University of Washington

PHD IN INFORMATION SCIENCE NSF GRFP FELLOW

- Advised by: Emma S. Spiro and Jevin West (Center for an Informed Public)
- Research: AI Education; Machine Learning Fairness; Algorithmic Harm Reduction

Seattle, WA

Expected Graduation: June 2024

University of Rochester

BACHELOR OF SCIENCE IN COGNITIVE SCIENCE WITH HIGH DISTINCTION

- Focus in Artificial Intelligence and Computer Science

Rochester, NY

May 2016

Skills

Programming Languages

Python, R, HTML/CSS, JavaScript, bash, SQL, MongoDB, Java

Frameworks/Libraries/APIs

scikit-learn, pandas, xgboost, beautiful soup, tensorflow, pytorch-Transformers, pytorch-BERT, nltk, ggplot, PushShift API, Twitter API, AWS, Amazon ML, OpenAI API

Favorite ML Topics

Principal Component Analysis (dimensionality reduction), Naive Bayes, feature engineering, information theory, recommender systems, gradient descent

UX Research

quantitative and qualitative data collection, statistical modeling and significance testing, NLP analysis on user comments and reviews, user interviews, usability testing, A/B testing, research design, prototype engineering and evaluation, survey design, product walkthroughs

Web Development

front end development, JavaScript, mongodb, wireframing, responsive design, user experience, accessibility testing, debugging, evaluating, Amazon S3 and EC2, docker

Miscellaneous

Explaining ML algorithms to non-experts, data visualization, non-judgmental social advocacy, professional learning materials, management skills, workshops and community outreach

Projects/Publications

How Much Do You Care?: Empirical Measures of Data Scientist Interest in AI Ethics

current work

YIM REGISTER, DAN SCHNEIDER, EMMA S. SPIRO

Code.org Societal Impact of Generative AI Collaborative Game [\(link\)](#)

2024

YIM REGISTER, DAN SCHNEIDER, SARAH JUDD, CODE.ORG CURRICULUM TEAM

Code.org AI and Machine Learning

Beyond Initial Removal: Lasting Impacts of Discriminatory Content Moderation to Marginalized Creators on Instagram

YIM REGISTER, IZZI GRASSO, ET AL.

2024

CSCW '24 ACM SIGCHI Conference

Attached to “the Algorithm”: Making Sense of Algorithmic Precarity on Instagram ([link](#))

YIM REGISTER, LUCY QIN, AMANDA BAUGHAN, EMMA S. SPIRO

2023

CHI '23: ACM CHI Conference

From Complaining to Explaining: Classifying Complaints vs. Explanations of the Instagram Algorithm using NLP Methods and XGBoost

YIM REGISTER, NAYAN KAUSHAL, XIAOBING XU, JOSEPH WILLIAM TAN GARCIA, DEV WILDER, EMMA S. SPIRO

2023

Directed Research Group Project

AI education matters: Guiding our Future AI Leaders with Joy and Justice ([link](#))

YIM REGISTER, JOSEPH WILLIAM TAN GARCIA, NAYAN KAUSHAL, DEV WILDER, XIAOBING XU

2022

SIGAI AI Matters Volume 8 Issue 2

Model AI Assignments 2022 ([link](#))

TODD W. NELLER, JAZMIN COLLINS, DANIEL SCHNEIDER, YIM REGISTER ET AL.

2022

EAAI '22: AAAI Conference

Developing Self-Advocacy Skills for Facebook Users through Machine Learning Education ([link](#))

YIM REGISTER AND EMMA S. SPIRO

2022

ICWSM '22: AAAI Conference

It is Time for a More Critical CS Education ([link](#))

AMY J. KO, ALANNAH OLESON, MARA RYAN, YIM REGISTER, ET AL.

2020

Communications of the ACM, Vol 63.11

Learning Machine Learning with Personal Data Helps Stakeholders Ground Advocacy Arguments in Model Mechanics ([link](#))

YIM REGISTER AND AMY J. KO

2020

ICER '20: ACM Conference

Data Science for Software Engineers

YIM REGISTER AND GREG WILSON

2019

RStudio



Experience

Code.org

CONSULTANT

2021, 2023

- collaborated with multiple teams (Curriculum, Professional Learning, and Product Team) to offer skills in AI evaluation, ethics, education, and statistics. Developed lessons, professional learning materials, and consulted on evaluation and design of a generative AI product

NSF Secure and Trustworthy Cyberspace Program(SaTC) Research and Outreach

RESEARCHER

2023

- Designed and implemented outreach materials regarding misinformation, virality, and overall safety of social media specifically aimed for high-schoolers. Engineered a series of web apps as well as interactive games

Directed Research Group: Natural Language Processing

PRINCIPAL INVESTIGATOR

2022

- designed and led a directed research group conducting an NLP project about social media algorithmic literacy. collected reddit data to analyse user sentiment and understanding of “the algorithm” on social media

Court Appointed Child Advocate

KING COUNTY CASA

2020 - 2021

- advocate for children in domestic violence, abuse, and neglect cases in the Family Court System in King County, WA

RStudio

EDUCATION TEAM

2018

- created a series of lessons to teach [Data Science to Software Engineers](#), using software engineering research examples and R code

Computation and Language Lab

2015-2018

LAB MANAGER/RESEARCHER

- Church encoding/lambda calculus cognitive models; MCMC Bayesian inference; computational modeling of adults, children, and primates; Linux admin; studied how our brains behave like AI models (or vice versa)

Patanadek School, Thailand

2018

ESL KINDERGARTEN TEACHER

- I taught kindergarten before my PhD!



Teaching

Data Science II: Machine Learning

2021 - 2024

COURSE CO-TEACHER

University of Washington

- taught ML algorithms like KNN, regression, k-means, PCA, PageRank, Naive Bayes, collaborative filtering, cross validation, random forest

Calling BS: Data Reasoning in a Digital World ([read more](#))

2023

HEAD TEACHING ASSISTANT

University of Washington

- led weekly sessions about combating misinformation online, as well as spotting how people lie with statistics or incorrect data visualizations

Information Management Introduction to Data Science

Summer- Autumn 2020

COURSE CURRICULUM CO-DESIGNER

University of Washington

- worked alongside Emma S. Spiro and *Construct* to create online course materials for the introductory Data Science series

Center for an Informed Public Misinfo Day at UW

2020, 2023

INTERACTIVE ACTIVITIES FOR STUDENTS

University of Washington

- Outreach activities for highschoolers to learn about misinformation online

Informatics Design Methods

2018

TEACHING ASSISTANT

University of Washington

- led students through a quarter-long informatics design project for Community Service

Information Management Web Programming

2018

TEACHING ASSISTANT

University of Washington

- taught HTML, JavaScript, CSS, and GitHub to Information Management Master's students



Awards

Center for an Informed Public (CIP) Innovation Grant

2023

GRANT AWARD

National Science Foundation (NSF) Graduate Research Fellowship

2019-2022

FELLOWSHIP

CS Hero CSEdWeek Award

2023

AWARD

Top Scholar Award

2018

SCHOLARSHIP

National Organization for Women Susan B. Anthony Award for Activism

2017

AWARD



Invited Talks

The Future of AI Can Be Kind

BERLIN MODEL UNITED NATIONS CONFERENCE (BERMUN) 2023

2023

Mental Health, Social Media, and Empowerment: Navigating Client Experiences with Information Online

CERTIFIED SPEAKER ProBono Counseling Workshop (Training Therapists on Social Media and Misinformation)

2023

CSEdWeek CS Hero Panel

SPEAKING ON EXPERIENCES OF TRAUMA-INFORMED DATA SCIENCE EDUCATION AND CS EDUCATIONAL FOR ALL

2023

Boys and Girls Club Learn and Earn Program

SPEAKING WITH HIGH SCHOOLERS ABOUT A FUTURE CAREER IN A.I., FIELDING QUESTIONS ABOUT MY RESEARCH AND ENCOURAGING COMPASSIONATE DATA SCIENCE

2021

Mechanism Design 4 Social Good Working Group MD4SG

DISCUSSING SELF-ADVOCACY RESEARCH AS WELL AS FUTURE WORK ON FACEBOOK SELF-ADVOCACY FOR DATA SCIENCE NOVICES, AND HOW WE CAN EMPOWER USERS OF SOCIAL MEDIA TO RESIST ALGORITHMS

2020

Toronto Data Workshop

DISCUSSING SELF-ADVOCACY RESEARCH AS WELL AS FUTURE WORK ON FACEBOOK SELF-ADVOCACY FOR DATA SCIENCE NOVICES, AND HOW WE CAN EMPOWER USERS OF SOCIAL MEDIA TO RESIST ALGORITHMS

2020

LGBTQ Pride Speaker for Qualtrics

COVERING TOPICS OF ALGORITHMIC BIAS FOR QUALTRICS ENGINEERS, INCLUDING "RAINBOW WASHING" AND OTHER WAYS THAT MACHINE LEARNING PERPETUATES HARM ON SOCIAL MEDIA

2020

Data Science for Software Engineers: busting software myths with R

RSTUDIO::CONFERENCE *Lightning Talks*

2020

Mission Statement

I believe that everyone has a special story to tell, and these stories can help us to implement more compassionate and empowering technology. I work at the intersections of machine learning, trauma-informed computing, and computer science education. I believe in putting AI ethics into practice with a series of comprehensible, practical, and actionable steps. I also believe that anyone can be inspired to care about the AI Ethics landscape, through drawing on their personal experiences and building empathy for others. Together, we all represent different points of intervention in promoting more ethical AI, and it is my mission to empower you to discover what you care about most.