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My work focuses on explainable algorithms and interfaces for fighting human trafficking online and is funded by the NSF GRFP.

Carnegie Mellon University	Pittsburgh, PA		
PH.D. IN COMPUTER SCIENCE University of Notre Dame B.S. IN COMPUTER SCIENCE, 3.87/4.0 Saint Mary's College B.S. IN COMPUTING AND APPLIED MATHEMATICS, 3.91/4.0	Aug. 2019 - presen Notre Dame, II Aug. 2015 - May. 2015 Notre Dame, II Aug. 2014 - May. 2016		
		Fellowships and Awards	
		Mar 2021 Graduate Research Fellowship, National Science Foundation	
		May 2019 Outstanding Student Award , Computer Science Department	Notre Dam
		ep 2018 Anita Borg Scholar, Grace Hopper Conference	Houston, Texa
May 2018 Donald E. Miller Award , Mathematics and Computer Science Department	Saint Mary's Colleg		
May 2018 Honors on Undergraduate Thesis, Mathematics and Computer Science Department	Saint Mary's Colleg		
an 2017 Meritorious Winner , Mathematical Contest in Modeling	COMA		
an 2017 Outstanding Poster Award , MAA Undergraduate Poster Session	Joint Math Meeting		
an 2017 Indiana Epsilon Inductee, Pi Mu Epsilon	Saint Mary's Colleg		
Dean's List , All Semesters	Saint Mary's Colleg		
Publications			
PEER-REVIEWED: * DENOTES FIRST AUTHOR			
nfoShield: Generalizable Information-Theoretic Human-Trafficking Detection	202		
Lee, M.*, Vajiac, C.* , Kulshrestha, A., Levy, S., Park, N., Jones, C., Faloutsos, C., Rabbany, R.	Chania, Greed		
IEEE International Conference of Data Engineering			
Synchronous Hyperedge Replacement Graph Grammars	201		
Pennycuff, C., Sikdar, S., Vajiac, C. , Chiang, D., Weninger, T.	Toulouse, Franc		
Proc. of International Conference on Graph Transformation.			
Developing Colorimetric Comparisons for Paper Analytical Devices	201		
Vajiac, C.*, Bentley, I.	Atlanta, G.		
MAA Undergraduate Poster Session. Won Outstanding Poster Award			
Jnder Review/Not Peer-Reviewed			
rafficLight: Holistic Detection of Human Trafficking in Online Escort Advertisements	202		
Kulshrestha, A., Vajiac, C. , Levy, S., Wang, J., Park, N., Jones, C., Faloutsos, C., Eswaran, D., Lee,	M., Rabbany, R.		
exploration of Numerical Precision in Deep Neural Networks	201		
Li, Z*. Ma, Y*. Vajiac, C.* , Zhang, Y.*			
arXiv preprint arXiv:1805.01078			
exploration of Gradient Descent	201		
VAJIAC, C*			
Undergraduate Thesis Project, Saint Mary's College			

May 2021 **CMU researchers develop algorithm to identify human trafficking patterns**, WXPI News

Pittsburgh, PA

Industry Experience

Business Support Solutions Team, IBM Cloud

IBM, Foster City, CA June 2018 - August 2018

- Implemented features for Account Management api
- · Improved Account Management's workflow for staging and deployment

Outreach .

SOFTWARE DEVELOPER

Course Development: Diversity, Equity, and Inclusion in CS and Society

Pittsburgh, PA

CARNEGIE MELLON UNIVERSITY, COMPUTER SCIENCE DEPARTMENT (CSD)

July 2020 — present

- Developed anti-bias initiative for Computer Science Department
- Developed course materials (3 course & full semester version)
- Successfully pitched mandatory course for first year PhD students in CSD
- Moderated a student group in Spring 2021
- · Consulted with many stakeholders at CMU, including DEI office, Eberly Center

Teaching Assistant Notre Dame, IN

SAINT MARY'S COLLEGE AND UNIVERSITY OF NOTRE DAME

August 2015 — May 2019

- Ran weekly problem sessions for Foundations of Higher Mathematics and Calculus I
- Held office hours and graded for Programming Challenges and Systems Programming

President Notre Dame, IN

MATHEMATICS AND COMPUTER SCIENCE CLUB, SAINT MARY'S COLLEGE

August 2017 — May 2018

- Organized events and talks to facilitate school-wide interest in mathematics
- Ran cryptography sessions for Hypatia Day (event for middle school girls' exposure to STEM)

Vice-President Notre Dame, IN

LINUX USER'S GROUP OF NOTRE DAME

August 2018 — May 2019

· Organized and gave weekly talks on topics related to the open-source community

Treasurer Notre Dame, IN

PI Mu Epsilon, Saint Mary's College

August 2018 — May 2019

Organized travel for 15 women to go to the Joint Mathematics Meetings 2017 and 2018