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Education _

PhD in Computer Science

University Of Warwick

JULY 2022 - CURRENT (EXPECTED APRIL 2026)

Visiting Graduate Student (Sublinear Algorithms)

Simons Institute, Berkeley, CA

MAY 2024 - AUGUST 2024

Visiting Graduate Student

Oxford University

MAY 2023 - MAY 2024

M.S. in Computer Science

University Of Wisconsin-Madison

SEPTEMBER 2015 - DECEMBER 2017

B.S in Computer Engineering and Applied Mathematics

University Of Wisconsin-Madison

SEPTEMBER 2011 - MAY 2015

Experience _____

Amazon - UK

Cambridge/London, United

Kingdom

APPLIED SCIENTIST

March 2020 - November 2022

- Lead scientist for offline evaluation of dialogue systems in Alexa
- Lead scientist for AI assisted UX development in Alexa

Amazon - USA Seattle, WA, USA

APPLIED SCIENTIST

May 2017 - March. 2020

- Lead scientist for real time interactive search platform. Deployed in January 2018; currently supports 500 million users.
- Lead scientist for personalised news recommendations in Alexa

Soccer Without Borders
Advisory Board Member And High School Coach

Seattle, WA, USA

September 2019 - March 2020

- Coached High School Soccer Team
- Help with fundraising and coaching structure

University of Wisconsin-Madison

Madison, WI, USA

June 2012 - December 2017

RESEARCH ASSISTANT

- Software Developer for NEXT- a cloud based machine learning system for applying adaptive data collection under the supervision of
- Professor Kevin Jamieson. Algorithms used by the New Yorker for cartoon selection contest. NEXT: http://nextml.org/team/
- Developed instructional material (https://tinyurl.com/4v2hptfk) for introduction to Computer Engineering via Robotics for Karu Sankaralingam

Publications

Sum Of Squares Of Proofs For Perfect Matchings Are Also Hard To Refute

2025

ARI BISWAS, RAJKO NENADOV

Available on Request

In Submission

Differentially Private Hierarchical Heavy Hitters

2025

Ari Biswas, Graham Cormode, Yaron Kanza, Divesh Srivastava, Zhengyi Zhou,

TPDP 2024, PODS 2025

https://abiswas3.github.io/papers/dp-hhh-camera-ready.pdf

Interactive Proofs For Differential Privacy

ACM CCS, 2023

ARI BISWAS, GRAHAM CORMODE

Copenhagen, Denmark

https://abiswas3.github.io/papers/CCS_2023.pdf

Interactive Proofs For Differential Privacy (Extended Abstract)

ARI BISWAS, GRAHAM CORMODE

https://abiswas3.github.io/papers/TpDpAbstract.pdf

Seeker: Real-time interactive search

ARI BISWAS, THAI PHAM, MICHAEL VOGELSONG, BENJAMIN SNYDER, HOUSSAM NASSIF

https://dl.acm.org/doi/10.1145/3292500.3330733

Adversarial principal component analysis.

Daniel L. Pimentel-Alarcón, Ari Biswas, Claudia R. Solís-Lemus

https://ieeexplore.ieee.org/document/8006952

Hands-on introduction to computer science at the freshman level

Raghu Balasubramanian, Zach York, Matt Doran, Ari Biswas, Timur Girgin, and Karu Sankaralingam

https://dl.acm.org/doi/10.1145/2538862.2538889

Aachen, Germany ACM SIGCSE, 2014

TPDP Workshop, 2023

ACM SIGKDD, 2019

Anchorage, USA

IEEE ISIT, 2017

Boston, USA

Atlanta, USA

Honors & Awards

2023

Travel Grant Simons Institute WOLA Workshop 2024

Travel Grant Awarded to students with papers at the Theory and Practice Of Differential

Privacy Workshop

Chancellors International Scholarship Awarded to the 30 most outstanding international 2022

PhD applicants to the University of Warwick across all departments.

2011-2015 Top 10% students ECE department, Deans List Berkeley, CA Boston, MA

University of Warwick

UW Madison

Teaching Experience

Algorithm Foundations Of Social Choice

TEACHING ASSISTANT FOR EDITH ELKIND

Hilary Term 2024

Computational Game Theory

TEACHING ASSISTANT FOR MICHAEL WOOLDRIDGE

Introduction to Programming in Python

TEACHING ASSISTANT FOR LAURA HOBBES LEGAULT

Oxford University

Oxford University Michaelmas Term 2023

CS 301. UW Madison

Fall. 2017

Introduction to Real Analysis

GRADER FOR BRIAN COOK

Math 521. UW Madison

Spring. 2017

Fall. 2015

Introduction to Optimization

TEACHING ASSISTANT AND GRADER FOR LAURENT LESSARD

CS/ECE/ISyE 524, UW Madison

Spring. 2016

Theory and Applications of Pattern Recognition

TEACHING ASSISTANT AND GRADER FOR ROBERT NOWAK

ECE/CS 532, UW Madison

Introduction to Computer Engineering

LAB ASSISTANT FOR KARU SANKARALINGAM

CS 252. UW Madison

Spring 2012, Spring 2014

Posters and Talks

Differentially Private Hierarchical Heavy Hitters

TPDP 2024

Harvard University, August 2024

Interactive Proofs For Differential Privacy

Talk

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Poster

CCS 2023

Copenhagen, Denmark, November 2023

Interactive Proofs For Differential Privacy

TPDP 2023 - THEORY AND PRACTICE OF DIFFERENTIAL PRIVACY

Poster Boston, MA, USA, September 2023

Interactive Proofs For Differential Privacy

Talk

WARWICK POSTGRADUATE COLLOQUIUM IN COMPUTER SCIENCE (WPCCS)

Coventry, UK, March 2023

Interactive Proofs For Differential Privacy

AMAZON PRIME TALK SERIES (INVITED)

Seattle, WA, USA, October 2023

News Recommendations in Alexa using Contextual Bandits

Amazon Machine Learning Conference (AMLC)

Seattle, WA, USA, July 2019

Entity Matching for EHR- and Transcriptome-based Phenotyping

CPCP Retreat (https://vimeo.com/173793012)

Madison, WI, USA, July 2016

Talk

Talk