Anthony John Ripa

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Education

Stony Brook University	Stony Brook, NY	**2011 – Present**

- Dean's List, 3.96, Logic Fellowship, Summa Cum Laude

B.S. Computer Science + Math	2017
M.S. Computer Science	2021
Ph.D. Computer Science	Expected 2025

Suffolk County Community College	Selden, NY	**2008 – 2011**

- Dean's List, 4.0, CSEMS Scholarship

A.A. Math	2008
A.S. Computer Science	2009
A.S. Engineering	2010
A.S. Biology	2011

Research Experience

Stony Brook Visual Analytics and Imaging Lab	**2022 – Present**

Supervisor: Klaus Mueller

Role: Research Assistant

- Build Consensus for Inclusive Understandings of Bias and Fairness

Stony Brook Theoretical & Experimental Algorithms Group	**2020 – 2022**

Supervisors: Rezaul Chowdhury (SBU) & Aaditya Rangan (NYU)

Role: Research Assistant

- Refactor Computational Mathematics with New Logic, Data-Structures, and Learning

Stony Brook Logic Group	**2019 – 2020**

Supervisor: Paul Fodor

Role: Research Assistant

- Collaborate with Computational Linguists to investigate Automata Learning

Stony Brook T.L.T. Media Lab	**2014 – 2018**

Supervisor: Paul St. Denis

Role: Student Assistant

- Write Educational Web Applications for Stony Brook Professors in ES6

Stony Brook Logic Group   **2016 – 2017**

Supervisors: Dr. Michael Kifer, Dr. Annie Liu, Dr. David Warren, Dr. Paul Fodor

Role: Fellowship

- Use IncOQ for Database Optimization in Python

Stony Brook Center for Visual Computing   **2013 – 2014**

Supervisor: Dr. Arie Kaufman

Role: Research Assistant

- Use Kinect™ for 3D point-cloud Image Registration using PCL in C++ & MATLAB

Technical Skills

- ANSI C, Java 8, Python 2.7+3.11, .NET 4.0 (C# and VB), Prolog
- HTML5, CSS3, JavaScript ES13, PHP, JSP, MySQL, SQLite
- jQuery, jQuery UI, D3.js, Vue.js, Plotly.js, REST
- Statistics, R, MATLAB, Maple, Mathematica

Class Projects

	Project name	*Role*	*Details*	*Grade*
CSE308	Clone Amazon	Project Manager	Coordinated UX, UI, & Backend developers	A
CSE305	Clone Facebook	Lead Developer	Used JSP+Servlets to implement full stack	A

Presentations

Conference	*Title*	*Date*
URECA 2016	PlaceValue: a data-type for base agnostic arithmetic	2016-04-16
Maple Conference 2021	Leibniz: A Generics-Based Expression Simplifier	2021-11-05

Grad Research Day 2024	FairPlay: A Collaborative Approach to Mitigate Bias	2024-03-29
NeurIPS 2024	FairPlay: A Collaborative Approach to Mitigate Bias	2024-12-14
BRIDGES 2025	Geometric Object Arithmetic	2025-01-30

Publications

Conference	Title	Date
CSCW	FairPlay: A Collaborative Approach to Mitigate Bias in Datasets for Improved AI Fairness	2024-09-20

Teaching Experience

Instructor

Department of Mathematics

MAP 103: Proficiency Algebra	3 credits	2012-08-27 to 2012-12-19

Tutor

Educational Opportunity Program (EOP)

AMS, MAT, & CSE		2018-09-14 to 2019-04-01

Teaching assistant

Department of Applied Math and Statistics (AMS)

AMS 310: Survey of Probability and Statistics	3 credits	2012-01-23 to 2012-05-15
AMS 210: Applied Linear Algebra	3 credits	2013-01-28 to 2013-05-22

Department of Computer Science

CSE 101: Introduction to Computers	3 credits	2014-01-27 to 2014-05-21
CSE 215: Foundations of Computer Science	3 credits	2019-05-26 to 2019-07-03
CSE 214: Data Structures	3 credits	2019-07-06 to 2019-08-15
CSE 505: (Grad) Logic Programming	3 credits	2019-08-26 to 2019-12-19
CSE 541: (Grad) Logic in Computer Science	3 credits	2020-01-27 to 2020-05-21
IAE 101: Digital Intelligence	3 credits	2020-08-20 to 2021-01-31
CSE 541: (Grad) Logic in Computer Science	3 credits	2020-08-20 to 2021-01-31
CSE 548: (Grad) Analysis of Algorithms	3 credits	2021-01-14 to 2021-06-09
CSE 303: Introduction to the Theory of Computation	3 credits	2021-08-27 to 2021-12-19

CSE 373: Analysis of Algorithms	3 credits	2022-01-24 to 2022-05-18
CSE 332: Introduction to Visualization	3 credits	2023-08-28 to 2023-12-21

Peer Review Activities

Conferences

SIGCSE	ACM	12:37PM - 2022-10-31
SIGCSE	ACM	12:50PM - 2022-10-31
SIGCSE	ACM	12:53PM - 2022-10-31
Pluralist Alignment	NeurIPS	2024-09-19
Pluralist Alignment	NeurIPS	2024-10-06

Journals

PLOS ONE	PLOS	2023-02-04
AI & SOCIETY Journal of Knowledge, Culture and Communication	Springer	2024-04-29
PLOS ONE	PLOS	2024-09-23