# **Anthony John Ripa**

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#### **Education**

Stony Brook University	Stony Brook, NY	2011 – Present
<ul><li>Dean's List, 3.96, Logic Fellowship</li></ul>	, Summa Cum Laude	
<ul><li>B.S. Computer Science + Math</li></ul>		2017
<ul><li>M.S. Computer Science</li></ul>		2021
<ul><li>Ph.D. Computer Science</li></ul>		Expected 2025
<b>Suffolk County Community College</b>	Selden, NY	2008 – 2011
<ul><li>Dean's List, 4.0, CSEMS Scholarsh</li></ul>	ip	
• A.A. Math		2008
<ul> <li>A.S. Computer Science</li> </ul>		2009
<ul><li>A.S. Engineering</li></ul>		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<sup>TM</sup> 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 2025	FairPlay: A Collaborative Approach to Mitigate Bias in	2025-05-02
	Daatsets for Improved AI Fairness	

# 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	Caringor	2024-04-29
Communication	Springer	2024-04-29
PLOS ONE	PLOS	2024-09-23
PLOS ONE	PLOS	2025-05-06