🖙 🖙 Google Scholar 📔 🖸 Github 📔 🛅 LinkedIn 📔 🎔 Twitter

Q Research Interests

Simulation & Modeling, Autonomous Agents, Social Agents, Human-Centered Artificial Intelligence, Computational Creativity, Story Technology, Symbolic AI, Cognitive Systems, Augmented & Mixed Reality Systems

A Ph.D. Computer Science candidate with 5 years of professional experience and 10+ years of engineering research experience. My human-centered doctoral research combines techniques from artificial intelligence, research engineering, planning, and multi-modal and simulation modeling into a modular, flexible toolkit for real-world decision-making. My work has been deployed in the entertainment, military, education, and healthcare industries.

Education

North Carolina State University Рн.D. IN Сомритек Science + Advisors: Dr. Arnav Jhala, Dr. Chris Martens + Thesis: Little Computer People: A Taxonomy and Social Simulation Sandbox	2017 - 2024 Raleigh, NC
Georgia Institute of Technology M.S. Сомритея Science + Advisor: Dr. Mark Riedl	2014 – 2016 Atlanta, GA
University of Mumbai B. ENGG. COMPUTER ENGINEERING + Advisor: Dr. Sunil Surve + Research: Procedural Level Generation for Augmented Reality Games	2007 – 2011 Mumbai, India

<u>I</u> Professional Experience

Ph.D. Research Intern

IBM Research, Almaden Labs - Future of Work

- + Supported executive-level decision-making and company-wide healthcare policies to bring employees safely back to work while mitigating employee health risks and the in-person viral spread of COVID-19.
- + Worked with a cross-functional team of 10+ research scientists, engineers, and an epidemiologist.
- + Went beyond the scope of work redesigned, conceptualized, and deployed a digital twin simulation of the company from scratch to test corporate healthcare policies while exceeding original timelines and goals.
- + Mathematically modeled an engine (patent in progress) capable of simulating population-level deterministic and stochastic events with greater granularity than has been possible before, improving run time from days to minutes.

Research Lab Associate

DISNEY RESEARCH - STORY TECHONOLOGIES

- + Supported executive Disney Imagineering, operations research, and park officials by scaling the number of mixedreality experiences capable of being designed and deployed concurrently for guests in the theme parks.
- + Designed human-centered AI support for deploying interactive multiplayer AR/MR experiences while reasoning about player interactions under temporal uncertainty and scheduling real-world resources.
- + Conception and implementation of a mathematical mixed-integer linear programming formulation of the problem.

+ Empirically evaluated its scalability over large narrative instances to inform user control and narrative generation.

Consultant

Capgemini

- + Developed mobile applications for clients to access enterprise data and enable cross-domain collaboration.
- + Developed information visualization dashboards for clients to enable cross-domain collaboration and analysis.
- + Moved to Capgemini due to a corporate acquisition of the Bayer BBS department.

May 2022 - Aug 2022

Sep 2016 - Jun 2017

Aug 2012 - Jun 2014

Mumbai, India

Pittsburgh, PA

San Jose, CA

Last updated: March 3, 2024

Sasha Azad · Curriculum Vitae

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Application Analyst

BAYER - BAYER BUSINESS SERVICES (BBS)

- + Initiated the first mobile development team at Bayer. Trained and mentored a team of 4.
- + Developed and deployed augmented reality (AR) and mixed reality (MR) Enterprise and Consumer mobile applications.

★ Academic Research Experience ____

Graduate Research Assistant

NORTH CAROLINA STATE UNIVERSITY - POEM LAB & ARNAV LAB

- + Supporting novice and experienced researchers and game designers with the design of a multi-agent simulation framework, authoring tool, and engine capable of complex simulation of societies of social, digital humans.
- + Mathematically modeled an engine (patent in progress) capable of simulating population-level deterministic and stochastic events and multi-agent interactions with greater granularity than has been possible before.
- + Designed and developed human-centered tools using a participatory research design process that takes into account human behaviors, cognitive science, artificial intelligence, and social science.

Graduate Research Assistant

GEORGIA INSTITUTE OF TECHNOLOGY - EILAB, DILAB & RNOC

- + Research and development of procedural content level generation algorithms, game engines, AI generative agents, and AI non-player characters (NPCs) for Augmented and Mixed Reality (AR, MR) Environments.
- + Research and design of a knowledge extraction tool for financial news capable of extracting deep understanding from text to improve the precision, relevance, and fertility of retrieved knowledge using analogical reasoning.
- + Created new open data frameworks, built scalable systems and APIs to facilitate student innovation, and developed new modes of interaction. Worked with student groups harnessing the APIs created for entrepreneurial launches.

_□ Teaching

CSC 000 - Al for Locative Interactive Narratives	Fall 2020
Instructor of Record	NCSU
CSC 584 - Computer Models of Interactive Narrative	Fall 2020
Graduate Teaching Assistant	NCSU
CSC 584 - Building Game Al	Spring 2020
Graduate Teaching Assistant	NCSU
CSC 316 - Data Structures and Algorithms	Spring 2018
Graduate Teaching Assistant	NCSU
CSC 316 - Data Structures and Algorithms	Fall 2017
Graduate Teaching Assistant	NCSU
CS 4261/8803 MAS - Mobile Applications and Services	Spring 2015
Graduate Teaching Assistant	Georgia Tech

APublications

PHD DOCUMENTS

- [1] **S. Azad**. "Little Computer People: A taxonomy and framework for social simulation". Doctoral dissertation. North Carolina State University, 2023. URL: https://sashazd.me/publication/phd-proposal/.
- [2] **S. Azad**. "Lyra: Simulating Believable Opinionated NPCs (Extended)". Doctoral dissertation. North Carolina State University, 2019. URL: https://sashazd.me/publication/phd-quals/.

JOURNAL PAPERS

- [15] S. Azad, D. Beymer, A. Pillai, T. Zimmerman, E. Seabolt, H. Bulu, C. Potts, V. Burrowes, V. Mukherjee, and A. Jhala. "Clockwork: A Discrete Event and Agent-Based Social Simulation Framework". In: JAAMAS (In Review), 2023. DOI: 10.21203/rs.3.rs-3740215/v1.
- [16] S. Azad and C. Martens. "Little computer people: A survey and taxonomy of simulated models of social interaction". In: *Proceedings of the ACM on Human-Computer Interaction* 5.CHI PLAY (2021), pp. 1–30. DOI: https://doi.org/10.1145/3474672.

CONFERENCE PROCEEDINGS

Raleigh, NC

Jan 2018 – Present

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Jan 2015 – Aug 2016 Atlanta. GA

- [3] **S. Azad**, J. Wellnitz, L. Garcia, and C. Martens. "Anthology: A Social Simulation Framework". In: *Proceedings of the AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment*. Vol. 18. 1. 2022, pp. 224–231. DOI: https://doi.org/10.1609/aiide.v18i1.21967. [~25% acceptance rate].
- [4] A. Striner, S. Azad, and C. Martens. "A Spectrum of Audience Interactivity for Entertainment Domains". In: *Interactive Storytelling*. Ed. by R. E. Cardona-Rivera, A. Sullivan, and R. M. Young. Springer International Publishing, 2019, pp. 214–232. ISBN: 978-3-030-33894-7. DOI: https://doi.org/10.1007/978-3-030-33894-7_23.
- [5] S. Azad. "Towards generating narratives for the real world". In: Proceedings of the 2018 AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE). Vol. 14. 1. 2018, pp. 282–284. DOI: https://doi.org/10.1609/aiide.v14i1.13008.
- [6] **S. Azad**, J. Xu, H. Yu, and B. Li. "Scheduling Live Interactive Narratives with Mixed-Integer Linear Programming". In: *Thirteenth AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment Conference (AIIDE)*. 2017. DOI: https://doi.org/10.1609/aiide.v13i1.12934.
- [7] **S. Azad**, C. Saldanha, C.-H. Gan, and M. O. Riedl. "Procedural Level Generation for Augmented Reality Games". In: *AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE)*. 2016. DOI: https://doi.org/10.1609/aiide.v12i1.12850. [~27.7% acceptance rate].
- [8] S. Rugaber, S. Bhati, V. Goswami, E. Spiliopoulou, S. Azad, S. Koushik, R. Kulkarni, M. Kumble, S. Sarathy, and A. Goel. "Knowledge extraction and annotation for cross-domain textual case-based reasoning in biologically inspired design". In: Case-Based Reasoning Research and Development: 24th International Conference, ICCBR 2016, Atlanta, GA, USA, October 31-November 2, 2016, Proceedings 24. Springer International Publishing. 2016, pp. 342–355. URL: https://link.springer.com/chapter/10.1007/978-3-319-47096-2_23.

Refereed Workshop Papers

- [9] J. Jonasson, B. Lech, **S. Azad**, and C. Martens. "Intertwining World and Narrative Generation for a Mobile Roleplaying Game". In: *Proceedings of the 2021 AAAI AIIDE Workshop on Experimental AI in Games (EXAG)*. 2021. URL: https://ceur-ws.org/Vol-3217/paper2.pdf.
- [10] B. Lech, S. Azad, J. Wellnitz, J. Jonasson, and C. Martens. "Designing a Combined World and Story Procedural Content Generation Engine". In: Proceedings of the 2021 AAAI AIIDE Workshop on Experimental AI in Games. 2021. URL: https://ceur-ws.org/Vol-3217/paper12.pdf.
- [11] **S. Azad** and C. Martens. "Lyra: Simulating Believable Opinionated Virtual Characters". In: *Proceedings of the 2019 AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment (AIIDE)*. Vol. 15. 1. 2019, pp. 108–115. DOI: https://doi.org/10.1609/aiide.v15i1.5232.
- [12] C. Martens, O. Iqbal, S. Azad, M. Ingling, A. Mosolf, E. McCamey, and J. Timmer. "Villanelle: Towards Authorable Autonomous Characters in Interactive Narrative". In: *Joint AIIDE Workshop on Intelligent Narrative Technologies and Workshop on Intelligent Cinematography and Editing (INT-WICED)*. Ed. by H.-Y. Wu, M. Si, and A. Jhala. Edmonton, AB, Canada: http://ceur-ws.org, Nov. 2018. URL: http://ceurws.org/Vol-2321/paper4.pdf.
- [13] S. Azad and C. Martens. "Addressing the Elephant in the Room: Opinionated Virtual Characters". In: Proceedings of the AAAI AIIDE Workshop on Experimental AI in Games (EXAG). 2018. URL: https://ceurws.org/Vol-2282/EXAG%5C_123.pdf.
- [14] **S. Azad**, C. Saldanha, C.-H. Gan, and M. Riedl. "Mixed Reality Meets Procedural Content Generation in Video Games". In: *Proceedings of the AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment*. Vol. 12. 2. 2016, pp. 22–26. DOI: https://doi.org/10.1609/aiide.v12i2.12898.

Projects_

SUMMARY

🏖 Intelligent, Autonomous Agents and Non-Player Characters. Simulating social digital humans for virtual worlds.

Social Agents	[3, 5, 11, 13, 15, 16]	2011, 2017, 2022
🖪 AI & Health	[15], See also: IBM Research internship	2022 – present
🗹 Authoring Tools	[3, 12]	2018, 2021 – Present
🗣 Knowledge and Bias Dissemination	[11, 13]	2017 – 2019
World Generation	[9,10,13]	2017 – 2019

Artificial Intelligence and Locative Narrative Experiences AI experience management and procedural content generation for AR/MR environments

Level Generation for AR/MR	[7, 14]	2015 – 2016
🔠 Experience Management	[6], See also: Disney Research internship	2016 - 2017
😨 Audience Interaction	[4]	2018
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SELECTIVE PROJECTS

Social Intelligence and Believable Social Characters

- + Classified a multi-agent taxonomy and ruleset using an in-depth analysis of a selection of social simulation projects.
- + Defined models for agent behaviour using themes of communication, knowledge dissemination, and relationships. + Designed and evaluated a simulation authoring tool using an iterative, participatory research design process
- + My work allows scientists to better reproduce and evaluate existing models, collaborate on standards, communicate methodologies, and allow for a more rigorous model-to-model analysis in the process of social simulation.

FEMA - Emergency Evacuation Management

- + Simulating digital twins of small populations to improve the low turnout of humans during emergency evacuation orders given to communities during catastrophic natural disasters such as hurricanes, or wildfires.
- Takes into account social interactions, influence, bias, and emergency orders knowledge dissemination using Lyra [11]. Simulates a small town, with movements, social interactions, and social relationships between members of the population used to disseminate evacuation orders, and the decision to evacuate using Anthology [3].

Clockwork: Autonomous, Intelligent Agent Modeling Engine

- + Conception, design, and development of a granular, behavior-level simulation engine of autonomous agents using hybrid Discrete Event Simulation (DES) and Agent-Based Social Simulation (ABSS) methodologies.
- + Ability to simulate population-level deterministic and stochastic events
- + Ability to affect change in agent models due to the influence of other agents through event-based emergent interactions
- + Deployment: Clockwork was used to test corporate healthcare policies on how to safely bring employees back to the workplace. Risk modeling included inputs from IoT building monitoring, resource allocation and crowding patterns.

Lyra: Dynamic Opinion and Knowledge Propagation of Misinformation and Bias

- + Investigating the problem of group formations and group opinion and belief modeling for a virtual society of humans
- + Modeled knowledge diffusion, political polarization, disinformation, and its effect on relationships and interactions. + Considers the effects of real (e.g., book clubs, classmates, etc.) and virtual (e.g., news and media sources, etc.)
- communities, relationships, and membership affinities on virtual human opinions and agent interactions.

Temporal Scheduling of AR/MR Experiences Under Uncertainty

- + Investigated the scheduling of a multiplayer interactive game, allowing multiple simultaneous games, reasons under temporal uncertainty, schedules resources, and handles non-linear plot choices.
- + Formulated the problem as a mathematical mixed-integer linear programming constraint satisfaction problem.
- + Empirically evaluated its scalability over large narrative instances to inform the control and generation of the narrative.

AI Narrative Drama and Experience Manager

- + Developed a Python AI Drama and Experience Manager that used AI planning and simulation techniques to generate a murder mystery narrative (with simulated motives) for a set of virtual characters.
- + An AI Game Master controls when to divulge clues and plot lines to players. A Quest Generator improves gameplay.
- + Evaluated our generated story and gameplay with a human subject study for believability and expressive range.

Cognopsi - A Knowledge Extraction Tool

Aug 15 - Jan 16 + Research and development on a knowledge extraction tool that extracts deep understanding from text to improve the precision, relevance, and fertility of retrieved responses by direct matching and analogical reasoning.

Unlock the Box (Civic Engagement)

- Oct 15 May 16 + Designed and developed an API to improve voter turnout and encourage civic participation from 53% to 62%.
- + Worked with the New Georgia Project's Director to implement the REST Voting API for the State of Georgia.

Player Modeling and Dynamic Level Adjustment

- + Performed player modeling using machine learning to create a computational model that approximated a player's behavior and skill level.
- Developed an AI opponent agent that used the results from player modeling to select play strategies that tailored its difficulty to match the player's current characterization, improving or worsening dynamically with the player.
- Conducted a human-subject study to evaluate the AI opponent agent users found the agent to be "smart", describing the agent anthropomorphically as "sneaky", "aggressive", "defensive", etc.

間Awards and Honors

Awards

Google	2020
Women Techmakers (formerly Anita Borg) Scholarship	\$10,000
Society of Women Engineers (SWE) and Motorola	2020
Motorola Solutions Foundation Engineering Scholarship	\$8,000

SASHA AZAD · CURRICULUM VITAE

May 22 - Aug 22

Sep 16 - May 17

Sep 14 - Dec 14

Mar 15 - May 15

4

May 23 - present

Sep 17 - present

Sep 17 - Jun 18

Girls Make Games (GMG) Girls Make Games (GMG) Fellowship North Carolina State University University Graduate Fellowship <u>Grants</u>	2020 \$1,500 2017 \$4,000
National Science Foundation (NSF) NSF ICORPS GRANT RECIPIENT Sasha Azad (Entrepreneurial Lead), Harold Solomon (Business Mentor), Evangelia Spiliopoulou (Graduate Student)	2015 – 2015 \$50,000 Georgia Institute of Technology
Honors	
Fellow - Women In Games International (WIGI) Women in Games Internations (WIGI)	2022
Best full paper award: [4] International Conference on Interactive Digital Storytelling (ICIDS)	2019
Elected - Senator of the Year Graduate Student Government, Georgia Institute of Technology	2016
Elected - Rookie Senator of the Year Graduate Student Government, Georgia Institute of Technology	2015

血Institutional Service_____

CSC PhD Prospective Student Recruitment Week	Spring 2020 – Present
Member	NCSU
Department Strategic Planning Faculty Committee	Fall 2017 - Fall 2022
Graduate Student Body Representative	NCSU
CSC PhD Prospective Student Recruitment Week	Spring 2019
Organizer	NCSU
Graduate Student Government Association	Fall 2015 - Spr 2016
Elected to Executive Legislature	Georgia Tech
Graduate Student Government Association	Fall 2014 - Spr 2016
Senator, College of Computing	Georgia Tech
Career, Research & Innovation Development Conference (CRIDC)	Fall 2014
Committee	Georgia Tech
Organizing Member and Team Lead	Georgia rech

血Outreach_____

SPARCS (Students in Programming, Robotics, and Computer Science) VOLUNTEER A middle school outreach program where students are taught computer science concepts. Lessons I taught include game development using Kodu and GameMaker, introduction to algorithms, web design, and robotics with LEGO Mindstorms.	2018 – 2021 Raleigh, NC
Second Chance Pet Adoptions Animal Shelter	2017 – 2020
Volunteer, Foster Parent	Raleigh, NC
Fulton County Animal Services	2014 - 2016
Volunteer, Foster Parent	Atlanta, GA
Fulton County Library	2015, 2016
Volunteer	Atlanta, GA
P.A.W.S. Animal Shelter	2010 - 2013
Volunteer	Mumbai, India
Dr. Sarala's Elderly Care Home	2007 - 2014
Volunteer	Mumbai, India

Professional Activities – Conference Organization _

SUMMARY

- 1 Chair Positions
- 2 Organizer
- 26 **Program Committee Member/Reviewer**
- **1** Community-Based Conference Attendee
- 30 Total Participation

CHAIR POSITIONS

AAAI AIIDE Experimental AI in Games Workshop Co-Chair	October 18-20, 2020 Virtual
Organizer	
AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) PUBLICITY CO-CHAIR AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) PUBLICITY CO-CHAIR	October 24-28, 2022 Pomona, CA October 8-12, 2019 Atlanta, GA
Journal Reviews	
IEEE Transactions on Games (ToG)	2023
Program Committee Member	
 AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) AAAI AIIDE Experimental AI in Games Workshop (EXAG) IEEE Conference on Games (CoG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI AIIDE Experimental AI in Games Workshop (EXAG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI AIIDE Intelligent Narrative Technologies Workshop (INT) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) 	October 8-12, 2023 October 6-7, 2023 August 21-24, 2023 December 4-7, 2022 October 24-28, 2022 October 22-23, 2022 December 7-10, 2021 October 11-15, 2021 October 9-11, 2021 3-6 November, 2020 October 19-20, 2020
 AAAI AIIDE Experimental AI in Games Workshop (EXAG) IEEE Conference on Games (CoG) International Conference on Interactive Digital Storytelling (ICIDS) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) AAAI AIIDE Experimental AI in Games Workshop (EXAG) FDG Workshop on Procedural Content Generation (PCG) IEEE Conference on Games (CoG) AAAI Workshop on Knowledge Extraction from Games (KEG) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE) AAAI AIIDE Experimental AI in Games Workshop (EXAG) 	October 18-20, 2020 August 24-27, 2020 November 19-23, 2019 October 8-12, 2019 October 7-8, 2019 August 26-30, 2019 August 20-23, 2019 January 27-28, 2019 November 13-17, 2018 November 11-12, 2018
IEEE Conference on Computational Intelligence and Games (CIG) AAAI Conference on Artificial Intelligence and Digital Entertainment (AIIDE)	August 14-17, 2018 October 5-9, 2017

October 5-9, 2017

COMMUNITY-BASED CONFERENCE ATTENDANCE

AAAI AIIDE Experimental AI in Games Workshop (EXAG)

Sep 29 – Oct 2, 2020 Grace Hopper Celebration

니 Professional Activities - Presentations _____

SUMMARY

 Special Conference Presentations On-Campus Invited Speaker Presentations Panels Total Presentations 	
Special Conference Presentations	
Towards Generating Narratives for the Real World AAAI AIIDE Doctoral Consortium	Nov 14, 2018 Alberta, Edmonton, CA
ON-CAMPUS INVITED SPEAKER PRESENTATIONS	
Generative AI in Simulated Environments	Dec 15, 2018
University of Mumbai	Mumbai, India
Building and Sustaining an Innovation Ecosystem	Feb 20, 2017
ENGR 2811 - HACKING FOR DEFENSE, UNIVERSITY OF PITTSBURGH	Pittsburgh, PA
PANELIST	
Computer Science Research - PhD Mentoring Panel	Nov 15, 2022
CSC 801 - INTRODUCTION TO PH.D. COMPUTER SCIENCE RESEARCH, NC STATE UNIVERSITY	Raleigh, NC
NC State University - Graduate Student Panel	Sep 2, 2022
CSC 295 - Undergraduate Research Course: Is Grad School for me?	Raleigh, NC
Computer Science Research - PhD Mentoring Panel	Mar 15, 2022
North Carolina State University	Raleigh, NC
Computer Science Research - PhD Mentoring Panel	Mar 1, 2021
North Carolina State University	Virtual
Computer Science Research - PhD Mentoring Panel North Carolina State University	Mar 21, 2020
Computer Science Research - PhD Mentoring Panel	Raleigh, NC Oct 15, 2019
CSC 801 - INTRODUCTION TO PH.D. COMPUTER SCIENCE RESEARCH, NC STATE UNIVERSITY	Raleigh, NC
Computer Science Research - PhD Mentoring Panel	Mar 20, 2019
North Carolina State University	Raleigh, NC
AI and Procedural Content Generation in Mixed Reality Environments	Sep 13, 2016
Microsoft: A Hololens Overview, Georgia Game Developer Association (GGDA)	Atlanta, GA

Mentoring _____

NORTH CAROLINA STATE UNIVERSITY

Luis Garcia		Fall 2021 - present
Ph.D. Computer Science \rightarrow Ph.D. Comput	er Science, Northeastern University	
Jennifer Welnitz		Fall 2019 - Spring 2022
Ph.D. Computer Science		
Eddy Huang		Fall 2020 - Fall 2021
B.S. Computer Science \rightarrow Ph.D. Computer	R SCIENCE, RICE UNIVERSITY	
Brenden Lech		Fall 2020 - Spring 2021
B.S. Computer Science \rightarrow M.S. Aerospace	Engineering, Virginia Tech	
Owais Iqbal,		Fall 2017 - Spring 2019
M.S. Computer Science \rightarrow Software Engi	neer, Facebook	
Maddie Ingling		Spring 2019 Eall 2019
B.A. Psychology, B.A. Creative Writing $ ightarrow$	CREATIVE WRITER WITH PSYCHOLOGY	Spring 2018 - Fall 2018
Background		
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Georgia Institute of Technology

Cheng-Hann Gan

Fall 2015 - Fall 2016 B.S. Computer Science \rightarrow Lead Software Developer, UKG Carl Saldanha Fall 2015 - Fall 2016 M.S. Computer Science \rightarrow Robot Engineering Manager, Fetch Robotics **Evangelia Spiliopoulou** *Summer 2015 - Fall 2015* B.S. Computer Science \rightarrow Applied Scientist, AWS AI, Amazon

CV produced using MTEX. Modified version of code: github.com/lara-martin/CV/tree/main.