

Maya Ackerman

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Education

- 2008-2012 **Ph.D. in Computer Science**, *University of Waterloo*, ON, Canada.
- 2006-2007 **M.Math in Computer Science**, *University of Waterloo*, ON, Canada.
- 2001-2006 **B.Math in Computer Science and Combinatorics and Optimization**, *University of Waterloo*, ON, Canada.

Positions

- Since 2017 **Santa Clara University**, *Assistant Professor, Department of Computer Science and Engineering, Markkula Center Faculty Scholar*, Santa Clara, CA.
- Since 2017 **WaveAI Inc.**, *CEO and Co-founder*, San Francisco, CA.
- 2016-2017 **San Jose State University**, *Assistant Professor*, San Jose, CA.
- 2014-2016 **Florida State University**, *Assistant Professor*, Tallahassee, FL.
- 2013-2014 **University of California, San Diego**, *Postdoctoral Fellow*, La Jolla, CA.
- 2012-2013 **Caltech**, *Postdoctoral Fellow*, Pasadena, CA.

Publications (peer-reviewed)

* represents a student co-author.

- IEEE GHTC '22 Juliana Shihadeh*, M. Ackerman, Ashley Troske*, Nicole Lawson*, and Edith Gonzalez*. Brilliance Bias in GPT-3. *IEEE Global Humanitarian Technology Conference (IEEE GHTC)*, 2022.
- Digital Creativity '22 Lee Cheatley, M. Ackerman, Alison Pease, Wendy Moncur. Musical Creativity Support Tools for Bereavement Support. *Digital Creativity*, 2022.
- ICCC '22 Alison Pease, M. Ackerman, Nic Pease and Bernadette McFadden. A Roadmap for Therapeutic Computational Creativity. *International Conference on Computational Creativity (ICCC)*, 2022.
- Pattern Rec. '21 M. Ackerman, Shai Ben-David, Simina Branzei, David Loker. Weighted Clustering: Towards Solving the User's Dilemma. *Pattern Recognition*, 2019.
- ICCC '21 Christopher Cassion*, M. Ackerman, and Anna Jordanous. Humble Creative Machines. *International Conference on Computational Creativity (ICCC)*, 2021.
- ICCC '21 Kuakou Bossou* and M. Ackerman. Should Machines Evaluate Us? Opportunities and Challenges. *International Conference on Computational Creativity (ICCC)*, 2021.
- ICCC '21 Lauryn Gayhardt* and M. Ackerman. SOVIA: Sonification of Visual Interactive Art. *International Conference on Computational Creativity (ICCC)*, 2021.

- ICCC '21 Juliana Shihadeh* and M. Ackerman. MIST: "You Play, I'll Draw" *International Conference on Computational Creativity (ICCC)*, 2021.
- INTETAIN '20 Christopher Cassion*, Yuhang Qian*, Constant Bossou*, and M. Ackerman. Investors Embrace Gender Diversity, Not Female CEOs: The Role of Gender in Startup Fundraising. *EAI International Conference on Intelligent Technologies for Interactive Entertainment*, 2020.
- ICCC '20 Jun Chang* and M. Ackerman. A Climate Change Educational Creator. *International Conference on Computational Creativity (ICCC)*, 2020.
- ICCC '20 Juliana Shihadeh* and M. Ackerman. EMILY: An Emily Dickinson Machine. *International Conference on Computational Creativity (ICCC)*, 2020.
- NGC '20 Rafael Perez y Perez and M. Ackerman. Towards a Methodology for Field Work in Computational Creativity. *New Generation Computing*, 2020.
- ICCC '20 Lee Cheatley, M. Ackerman, Alison Pease, Wendy Moncur. Co-Creative Songwriting for Bereavement Support. *International Conference on Computational Creativity (ICCC)*, 2020.
- Pattern Rec. '19 Andreas Adolfsson*, M. Ackerman, and Naomi Brownstein. To Cluster, or Not to Cluster: How to Answer the Question. *Pattern Recognition*, 2019.
- ICCC '19 Rachel Goldstein*, Andy Vainauskas*, M. Ackerman, Robert Keller. Brain-Controlled Musical Improvisation. *International Conference on Computational Creativity (ICCC)*, 2019.
- DATA BRIEF '19 Naomi Brownstein, Andress Adolfsson*, and M. Ackerman. Descriptive Statistics and Visualization of Data from the R Datasets Package with Implications for Clusterability. *Data Brief*, 2019.
- ICCC '19 M. Ackerman and Rafael Perez y Perez. Field Work in Computational Creativity. *International Conference on Computational Creativity (ICCC)*, 2019.
- CSR '19 Hugo Oliveira, Tiago Mendes, Ana Boavida, Ai Nakamura*, and M. Ackerman. CoPoeTryMe: Interactive Poetry Generation. *Cognitive Systems Research*, 2019.
- ICCC '18 M. Ackerman, James Morgan, and Christopher Cassion*. Co-Creative Conceptual Art. *International Conference on Computational Creativity (ICCC)*, 2018.
- ICCC '17 Divya Singh*, M. Ackerman, and Rafael Perez y Perez. A Ballad of the Mexicas: Automated Lyrical Narrative Writing. *International Conference on Computational Creativity (ICCC)*, 2017.
- ICCC '17 M. Ackerman, Ashok Goel, Colin Johnson, Anna Jordanous, Carlos Leon, Rafael Perez y Perez, Hannu Toivonen, and Dan Ventura. Teaching Computational Creativity. *International Conference on Computational Creativity (ICCC)*, 2017. **Runner-up Best Paper Award.**
- EvoMUSART '17 M. Ackerman and David Loker. Algorithmic Songwriting with ALYSIA. *The International Conference on Computational Intelligence in Music, Sound, Art and Design (EvoMUSART)*, 2017.
- SDM '17 Amit Dhurandhar, M. Ackerman, and Xiang Wang. Uncovering Group Level Insights with Accordant Clustering. *SIAM International Conference on Data Mining (SDM)*, 2017.

- ICCC '16 Taylor Brockhoeft*, Jennifer Petuch*, James Bach*, Emil Djerekarov*, M. Ackerman and Gary Tyson. Interactive Projections for Dance Performance. *International Conference on Computational Creativity (ICCC)*, 2016.
- ICDM '16 Jarrod Moore* and M. Ackerman. Foundations of Perturbation Robust Clustering. *IEEE International Conference on Data Mining (ICDM)*, 2017.
- JAAMAS '16 M. Ackerman and Simina Branzei. Authorship Order: Alphabetical or Contribution? *Journal of Autonomous Agents and Multi-Agent Systems (JAAMAS)*, 2016.
- JMLR '16 M. Ackerman and Shai Ben-David. A Characterization of Linkage-Based Hierarchical Clustering. *Journal of Machine Learning Research (JMLR)*, 2016.
- NIPS '14 M. Ackerman and Sanjoy Dasgupta. Incremental Clustering: The Case for Extra Clusters. *Neural Information Processing Systems Conference (NIPS)*, 2014.
- IJBRA '14 M. Ackerman, Dan Brown, and David Loker. Effects of Rooting via Outgroups on Ingroup Topology in Phylogeny. *International Journal of Bioinformatics Research and Application (IJBRA)*, 2014.
- AAMAS '14 M. Ackerman and Simina Branzei. Authorship Order: Alphabetical or Contribution? *Autonomous Agents and Multiagent Systems (AAMAS)*, 2014.
- AISTATS '13 M. Ackerman, Shai Ben-David, David Loker and Sivan Sabato. Clustering Oligarchies. *Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2013.
- ACM RECSYS '13 Hossein Vahabi, M. Ackerman, David Loker, Ricardo Baeza-Yates and Alejandro Lopez-Ortiz. Orthogonal Query Recommendation. *ACM Conference on Recommender Systems (ACM RECSYS)*, 2013.
- AAAI '12 M. Ackerman, Shai Ben-David, Simina Branzei, and David Loker. Weighted Clustering. *Association for the Advancement of Artificial Intelligence Conference (AAAI)*, 2012.
- ICCABS '12 M. Ackerman, Dan Brown, and David Loker. Effects of Rooting via Outgroups on Ingroup Topology in Phylogeny. *IEEE International Conference on Computational Advances in Bio and Medical Sciences (ICCABS)*, 2012.
- COGSCI '12 Joshua Lewis, M. Ackerman, and Virginia De Sa. Human Cluster Evaluation and Formal Quality Measures. *Proc. 34th Annual Conference of the Cognitive Science Society*, 2012.
- IJCAI '11 M. Ackerman and Shai Ben-David. Discerning Linkage-Based Algorithms Among Hierarchical Clustering Methods. *International Joint Conference on Artificial Intelligence (IJCAI oral)*, 2011.
- CSP 2011 Daniel Maoz and M. Ackerman. Chavruta: A Novel Teaching Methodology Based on an Ancient Tradition. *From Antiquity to the Post-Modern World: Contemporary Jewish Studies in Canada*. Newcastle upon Tyne: Cambridge Scholars Publishing, 193-205, 2011.
- NIPS '10 M. Ackerman, Shai Ben-David, and David Loker. Towards Property-Based Classification of Clustering Paradigms. *Neural Information Processing Systems (NIPS)*, 2010.

- COLT '10 M. Ackerman, Shai Ben-David, and David Loker. Characterization of Linkage-Based Clustering. *Conference on Learning Theory (COLT)*, 2010.
- CSTL '10 Daniel Maoz and M. Ackerman, Chavruta and Transformative Learning: A Comparative Analysis, in *Opportunities and New Directions: Canadian Scholarship of Teaching and Learning* (Edited by N. Simmons. Waterloo: CTE, 2010) pp. 51-59.
- COCOON '09 M. Ackerman and Erkki Makinen. Three New Algorithms for Regular Language Enumeration. *Computing and Combinatorics: 15th Annual International Conference (COCOON)*, Lecture Notes in Computer Science 5609, Springer-Verlag, Berlin Heidelberg, pp. 178-191, 2009.
- AISTATS '09 M. Ackerman and Shai Ben-David. Clusterability: A Theoretical Study. *Proceedings of the Twelfth International Conference on Artificial Intelligence and Statistics (AISTATS oral)*, JMLR: &CP 5, pp. 1-8, 2009.
- TCS '09 M. Ackerman and Jeffrey Shallit. Efficient Enumeration of Words in Regular Languages. *Theoretical Computer Science*, Volume 410, Issue 37, pp. 3461-3470, 2009.
- NIPS '08 M. Ackerman and Shai Ben-David. Measures of Clustering Quality: A Working Set of Axioms for Clustering. *Full oral presentation at the Neural Information Processing Systems conference (NIPS)*, 2008. (**Acceptance rate: 2.7%**).
- CIAA '07 M. Ackerman and Jeffrey Shallit. Efficient enumeration of regular languages. Conference on Implementation and Application of Automata (CIAA), *Lecture Notes in Computer Science*, 4783, Springer-Verlag, Berlin Heidelberg, pp. 226-241, 2007.

Refereed Workshops

- MUME '19 Andreas Adolffson*, Jon Bernal*, M. Ackerman, and Julia Scott. Musical Mandala Mindfulness: A Generative Biofeedback Experience *Musical MetaCreation (MuMe)*, 2019.
- MUME '17 Christopher Cassion, M. Ackerman, David Loker. and Joshua Palkki. With Bolts of Melody! Songwriting with ALYSIA & Emily Dickinson. *International Workshop on Musical Metacreation*. (MUME), 2017.
- GHC '11 M. Ackerman. Towards Theoretical Foundations of Clustering. *Grace Hopper Conference (GHC)*, 2011.
- NIPS '09 M. Ackerman, Shai Ben-David, and David Loker. Characterization of Linkage-Based Clustering. *Neural Information Processing Systems workshop*, 2009.

Invited Talks

- IEEE GHTC '22 Does Gender Impact Startup Funding Success? A Data-Driven Perspective. IEEE Global Humanitarian Technology Conference. **Keynote talk.** Santa Clara, CA. 2022.
- CUCAI '22 Creative Machines: Academia to Industry. The Canadian Undergraduate Conference on AI. **Keynote talk.** Online event, 2022.
- UofTAI '22 Creative Machines. UofT AI, University of Toronto. Online event, 2022.
- USC '22 Commercializing Creative Systems. University of Southern California, MBA program. Online event, 2021, 2022.
- IUI '21 Commercializing Creative Systems - Opportunities and Challenges. IUI Workshop on AI-Human Co-creation with Generative Models. **Keynote talk.** Online event, 2021.
- Microsoft '21 Musical AI Landscape & Opportunities in Gaming. Microsoft AI and Gaming Research Summit. Online event. 2021.
- Oracle '21 Musical AI: Generative Tools Landscape. Oracle. Online event. 2021.
- GTC '21 Unleash Your Inner Lyricist. NVIDIA GPU Technology Conference. 2021
- Karajan '20 Creative Collaboration with AI. Karajan Music Tech Conference. Online event. 2020.
- PMA Academy '20 Musical AI: Present and Future. Online event. 2020.
- Northwestern '19 Machines as Creative Partners. Northwestern University. Evanstone, IL. 2019.
- UCSD '19 Musical AI. UC San Diego. San Diego, CA. 2019.
- SRJC '19 Machines as Creative Partners. Santa Rosa Junior College. Santa Rosa, CA. 2019.
- UN '19 Musical AI. United Nations AI for Good Summit. Geneva, Switzerland, 2019.
- SFAI '19 Computational Creativity. San Francisco Art Institute. San Francisco, CA, 2019.
- ISW '19 Introducing ALYSIA: Your AI-Based Songwriting Partner. *If So, What?* (Computing and art event). San Francisco, CA, 2019.
- Normale Superieure '18 Foundations of Cluster Analysis. Workshop on Collective Opinions. Ecole Normale Superieure. Paris, France, 2018.
- Afeka '18 Foundations of Cluster Analysis. **Keynote talk.** Afeka Tel Aviv Academic College of Engineering. Tel Aviv, Israel, 2018.
- Stanford '18 Can Computers Be Creative? Last Festival. SLAC National Accelerator Laboratory. Menlo Park, CA, 2018.
- World's Fair '18 The Future of Music. World's Fair Nano. San Francisco, CA, 2018.
- Harvey Mud College '17 Artificial Intelligence that Composes Music. Claremont, CA, 2017.
- Stanford '17 Algorithmic Songwriting. Stanford University, CCRMA. Stanford, CA, 2017.

- Sonoma State University '17 Algorithmic Songwriting. Sonoma State University. Claremont, CA, 2017.
- Google '17 Algorithmic Songwriting. Google Magenta. Mountain View, CA, 2017.
- Stanford '17 Computational Creativity: Can Computers Be Creative? LASER series. 10/5/17.
- LASER '17 Composed by an Artificial Intelligence. LASER Talks San Jose, CA, 2017.
- Ericsson '17 Algorithmic Songwriting. Ericsson. Santa Clara, CA, 2017.
- PASEO '17 World Premiere of ALYSIA's Compositions. PASEO festival. Hammer Theater. San Jose, CA. 2017.
- IBM '17 Formal Foundations of Clustering. IBM TJ Watson Research Center, 2017.
- IFCS '15 Progress and Open Problems in Clustering. *Conference of the International Federation of Classification Societies (IFCS)*. Bologna, Italy, 2015.
- Purdue '14 Theoretical Foundations of Clustering. *Purdue University*. West Lafayette, IN, 2014.
- CMU '13 Characterization of Linkage-Based Clustering. *Carnegie Mellon University*. Pittsburgh, PA. 2013.
- eHarmony '13 Formal Foundations of Clustering. *eHarmony*. Santa Monica, CA, 2013.
- ID Analytics '13 Formal Foundations of Clustering. *ID Analytics*. San Diego, CA, 2013.
- ITA '13 Towards Theoretical Foundations of Clustering. Information Theory and Applications Workshop. La Jolla, CA, 2013.
- UCSD '12 Weighted Clustering. University of California, San Diego. La Jolla, CA, 2012.
- Caltech '12 Towards Theoretical Foundations of Clustering. Caltech. Pasadena, CA, 2012.
- Columbia '12 Towards Theoretical Foundations of Clustering. Columbia University. New York, NY, 2012.
- Berkeley '11 On Theoretical Foundations of Clustering. University of California, Berkeley. Berkeley, CA, 2011.
- UCSD '10 Characterization of Linkage-Based Algorithms. University of California, San Diego. La Jolla, CA, 2010.

Invited Panels

- NAMM '22 Artificial Intelligence, Artificial Creativity and their impact on music and content creation: Deep Dive Data Analysis. The NAMM Show, 2022.
- MONDO '21 Impact of AI in Music. MONDO NYC. New York, 2021.
- A3E '21 AI and Artificial Creativity. A3E. Remote event, 2021.
- ACGSV '21 Gender & Racial Bias in VC. ACG Silicon Valley. Remote event, 2021.
- RightsCon '21 Venture Capital panel. RightsCon Summit. Remote event, 2021.
- ICCC '21 Opportunities and Challenges in Computational Creativity. International Conference on Computational Creativity. Remote event, 2021.
- AES '20 AI and the Audio & Music Professional. Audio Engineering Society. Remote event, 2020.

- AES '20 ML Symposium industry panel. Audio Engineering Society. Remote event, 2020.
- Hosfelt Robots: Art and Machine. San Francisco, CA, 2019.
- Gallary '19
- SJICA '19 Robots: Art and Machine. San Jose Institute of Contemporary Art. San Jose, CA, 2019.
- PARC '18 The Cutting Edge of Artificial Intelligence. Palo Alto, CA, 2018.
- SCU '18 Machines and Minds. Santa Clara University. Santa Clara, CA, 2018.
- SYNC '17 AI: From Research to Application. US China AI Summit (SYNC). Mountain View, CA, 2017.
- LAST '17 AI & Creativity. LAST Festival. San Jose, CA, 2017.

Grants, Fellowships & Awards

- 2022-2024 Breaking the Bias. Chevron. \$60,000.
- 2021-2022 Investing in Black Founders: Understanding & Correcting Bias in Venture Capital Allocation. Ciocco Center for Innovation and Entrepreneurship, 2021-2022. \$30,000
- 2021 Racial Bias in Venture Capital. Santa Clara University, School of Engineering, 2021-2022. \$25,000.
- 2021 Wilmot Nicholson Award. Santa Clara University, School of Engineer. 2021.
- 2020 Woman of Influence Award. Silicon Valley Business Journal. 2020.
- 2015-2019 Unsupervised Learning (Clustering) of Odontocete Echolocation Clicks. Collaborative grant. *Office of Naval Research*, 2015-2018. \$400,000.
- 2019 Women in Tech Awards. Data Scientist Finalist. DTS Women in Tech Awards.
- 2017 Runner-up Best Paper Award. The Association for Computational Creativity.
- 2015 PI. First Year Assistant Professor Award. Foundations of Incremental Clustering. *Florida State University*. 2015. \$20,000.
- 2012-2014 Postdoctoral Fellowship. *Natural Sciences and Engineering Research Council of Canada (NSERC)*, 2012-2014. \$80,000.
- 2009-2012 Alexander Bell Canadian Graduate Scholarship. *Natural Sciences and Engineering Research Council of Canada (NSERC)*, 2009-2012. \$140,000.
- 2006-2011 President's Graduate Scholarship. *University of Waterloo*, 2006- 2011. \$50,000.
- 2010-2011 David R. Cheriton Scholarship. *University of Waterloo*, 2010-2011. \$20,000.
- 2006-2009 Ontario graduate scholarship. *Ontario Ministry of Training Colleges and Universities*, 2006-2009. \$51,000.

Popular Press

- VentureBeat** The real opportunity in creative AI: Deepening human creativity. *VentureBeat*, 2022.
- FORBES** CEO Gender 'Primary Determining Factor' To Get Funded: 48,000-Company Study. *FORBES*. February, 2021.
- dot.LA Harri Weber. Eye-Popping Valuations, Mega-Deals. VCs Are Flush with Cash, But Funding Mostly Male-Led Startups. dot.LA. October, 2021.

- PNAS** Science and Culture: Computers take art in new directions, challenging the meaning of “creativity”. *Proceedings of the National Academy of Sciences of the United States of America*. March 2019.
- Liberation Song of the Day. *Liberation Magazine (France)*. November 2019.
- Songwriting Song Deconstructed: ‘Is This Real’ by Diagrams. *Songwriting Magazine*. November 2019.
- ITU News Artificial Intelligence: the music industry’s newest producer. *ITU News Magazine*. May 2019
- Silicon Machine learning could make my musical dreams come true. *Silicon Republic*. Republic February 2019
- Interesting 3 Start-ups Leading the Musical AI Revolution. *Interesting Engineering*. November Engineering 2018
- NBC News** Machine-Made Melodies: How Humans Are Creating Artistic Partnerships with AI. *NBC News*. Dec 2016.
- Musically WaveAI launches its Alysia app as an AI ‘singer-songwriter’. *Musically*. January 2019.
- Technica How Artificial Intelligence is Empowering Aspiring Musicians. *Technica Curiosa*. Curiosa 2019.
- iNews This folk song was partly written by a computer — but musicians aren’t becoming obsolete just yet. *iNews*. December 2019.
- Forbes** The Startup Conference: Where Global Entrepreneurs Learn From Successful Silicon Valley Founders. *Forbes*. May 2018.
- DJ Mag AI created the lyrics and melody to this three-track EP. *DJ Mag Magazine*. October 2018.
- Loudest Recording Academy Grammy Awards. ALYSIA - An app that allows you to write your own songs using AI. *Loudest*. October 2018.
- TechWorld These AI startups are creating chart-worthy music with algorithms. *TechWorld*. December 2018.
- The Sociable Can a robot write a symphony? – The blossoming artistic talent of modern day AI. *The Sociable*. December 2018.
- Meeting The Future of AI in a World of Irreplaceable Human Characteristics. *Meeting Market*. December 2018.
- Palo Alto Algorithm and rhyme. *Palo Alto News*. April 2017. News
- New Scientist** Machine learning lets computer create melodies to fit any lyrics. *New Scientist*. Dec 2016.

Television/Radio/Podcast Interviews

- SiriusXM** The Fundraising Gap. Interview with Randi Zuckerberg. *Randi Means Business* on SiriusXM. January 2022.
- NVIDIA Sing It, Sister! Maya Ackerman on LyricStudio, an AI-Based Writing Assistant. *The AI Podcast by NVIDIA*. October, 2021.
- MR411 Writing Lyrics with AI. *Music Row 411*, Remote Event. July, 2021.
- Line of Sight WaveAI with Dr. Maya Ackerman. *Line of Sight Podcast*, Santa Clara University. Nov, 2020.
- Brain Byte Back Who takes ownership of art created by AI. *Brain Byte Back Podcast*. July 2020.
- Current Times Robot composer ALYSIA composes music no worse than humans *Current Times*. February 2018.
- Simulation AI Songwriting & Computational Creativity *Simulation*. May 2018.
- SVS Advice From a Successful Startup Founder *Silicon Valley Success*. October 2018.
- Women in Tech Computational Creativity with Maya Ackerman. *The Women in Tech Show*. July 2018.
- CGTN America Artificial intelligence program composes music. *CGTN America*. August 2017.
- WTXL TV FSU Mobile Lab Shines a Spotlight on Dance. *WTXL TV ABC 27*. April 2016.

Santa Clara University Press

- Feature Stories Can AI Be Sexist? Feature Stories. Santa Clara University. September, 2022.
- School of Engineering Bias in Venture Capital. Lightning Talk. October, 2021.
- Illuminate Bias in Venture Capital. *Illuminate*. Santa Clara University. February, 2021.
- School of Engineering Closing the Gender Gap in VC Funding. *Santa Clara University, School of Engineering*. February, 2021.
- Santa Clara Magazine Adam, Eve, and the Apple of Intelligence. *Santa Clara Magazine*. November 2019.
- Voices of Santa Clara Maya Ackerman: ALYSIA the Songwriting Computer. *Voices of Santa Clara*. 2019.
- The Santa Clara The Ethics of a Potentially Artificial Future. *The Santa Clara*. Artificial Future. April, 2019

Inclusion in High Impact Reports

- Amnesty Intl. Risky Business: How Venture Capitalists Ignore Human Rights When Investing in Technology. Amnesty International, 2021.
- US Gov Annual Report for Fiscal Year 2021: Office of the Advocate for Small Business Capital Formation. 2021. US Securities and Exchange Committee.

Teaching Experience

- 2022 **Human-Computer Creativity (Graduate)**, *Santa Clara University*.
- 2022 **Computational Creativity (Graduate)**, *Santa Clara University*.
- 2021 **Artificial Intelligence (Senior undergraduate)**, *Santa Clara University*.
- 2021 **Computational Creativity (Graduate)**, *Santa Clara University*.
- 2020 **Artificial Intelligence (Senior undergraduate)**, *Santa Clara University*.
- 2020 **Human-Machine Creativity (Graduate)**, *Santa Clara University*.
- 2020 **Abstract Data Types and Structures (Undergraduate)**, *Santa Clara University*.
- 2019 **Computational Creativity (Graduate)**, *Santa Clara University*.
- 2019 **Artificial Intelligence (Senior undergraduate)**, *Santa Clara University*.
- 2019 **Computational Creativity (Graduate)**, *Santa Clara University*.
- 2018 **Abstract Data Types and Structures (Undergraduate)**, *Santa Clara University*.
- 2018 **Machine Learning (Graduate)**, *Santa Clara University*.
- 2018 **Artificial Intelligence (Senior undergraduate)**, *Santa Clara University*.
- 2017 **Machine Learning (Graduate)**, *Santa Clara University*.
- 2017 **Computational Creativity (Undergraduate)**, *San Jose State University*.
- 2016 **Computational Creativity (Graduate)**, *San Jose State University*.
- 2016 **Data Structures and Algorithms (Undergraduate)**, *San Jose State University*.
- 2016 **Computational Creativity (Graduate)**, *Florida State University*.
- 2015 **Algorithm Design and Analysis (Senior undergraduate)**, *Florida State University*.
- 2015 **Clustering: Bridging Theory and Practice (Graduate)**, *Florida State University*.
- 2014 **Algorithm Design and Analysis (Senior undergraduate)**, *Florida State University*.
- 2011 **Theory of Computation (Senior undergraduate)**, *University of Waterloo*.

Teaching Accomplishments

- 2022 Student evaluations for Computational Creativity course: Median of 5 (highest possible) in all categories.
- 2021 Student evaluations for Artificial Intelligence course: Overall score 4.6/5. Spring 2021.
- 2018 Student evaluations for Abstract Data Types & Structures course: Median of 5 (highest possible) in all categories.
- 2016 Student evaluations for computational creativity course: Median of 5 (highest possible) in all categories.
- 2015 Student evaluations for clustering course: Median of 5 (highest possible) in 12 of 13 categories, including overall instructor rating.
- 2011 Recognized **among the top instructors at the School of Computer Science at the University of Waterloo** after teaching a senior course on the Theory of Computation.

Service to Broader Research Community

- Program Chair. The International Conference on Computational Creativity, 2023.
- Ignatian Faculty Forum member, Santa Clara University, 2021-2022, 2022-2023.
- Santa Clara University, Preview Day Volunteer, 2022
- Steering Committee of the International Association on Computational Creativity (2020 onwards)
- Journal of Computational Creativity (Associate Editor)
- Organized a tutorial on Therapeutic Computational Creativity in collaboration with Alison Pease. International Conference on Computational Creativity, 2022.
- Organized a tutorial on Therapeutic Computational Creativity in collaboration with research psychologist Galen Buckwalter. International Conference on Computational Creativity, 2021.
- Neural Information Processing Systems (NIPS)
- International Conference on Computational Creativity (ICCC).
- International Conference on Machine Learning (ICML).
- Artificial Intelligence and Statistics Conference (AISTATS).
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining.
- International Conference on Data Mining (ICDM).
- Journal of Machine Learning Research.
- Journal of Pattern Recognition.
- Springer Machine Learning Journal.
- New Generation Computing.
- Journal of Classification.
- Journal of Universal Computer Science.
- IEEE Transactions on Pattern Analysis and Machine Intelligence.
- IEEE Transactions on Information Theory
- ACM Transactions on Information Systems
- Transactions on Knowledge and Data Engineering.
- Advances in Data Analysis and Classification.
- Computational Creativity Symposium at AISB.
- Co-organised a NIPS workshop on principled approaches to clustering, 2009.

University Service

Committees

- Hiring Committee, Department of Computer Science and Engineering, 2021-2022.
- Diversity & Inclusion Council, Winter 2021.
- Machine Learning Courses Committee, Computer Science and Engineering Department, 2020.
- SoE committee lead: Outstanding Undergraduate Research Student, 2020.
- Faculty Senate, 2018-2019.
- Faculty Evaluation Committee, 2015-2016.
- PhD Portfolio and Qualifications Committee, 2015-2016.
- Adviser to CS Expo Committee, 2015-2016.
- CS Expo Planning Committee, 2014-2015.

Ignition Faculty Forum

- Participation in Ignition Faculty Forum II, 2022-2023.
- Participation in Ignition Faculty Forum I, 2021-2022.

Other SCU Service

- Given talks and media interviews about my research as requested by my department, school, and the university.
- Remote learning survey, 2020.
- ACG Silicon Valley/Santa Clara University panel organization, 2021.
- Gave three interactive workshops on creative computing at the Summer Engineering Seminar, Santa Clara University, 2022.
- Engaged in and helped conceptualize a panel on graduate school, held by the Society of Women Engineers (SWE), Santa Clara University, 2021.

Student Mentorship

Current PhD Students

- Juliana Shihadeh
- Kwadwo Amoako

Current Masters Students

- Lauryn Gayhardt
- I Chang
- Jui Banik
- Aanchal Rai
- Abhilash Harish Srivathsa
- Raya Young
- Sukhjot Bassi

Completed Graduate Supervision

- Juliana Shihadeh. Thesis: The Emily Dickinson Machine & Hybrid Poetry Generation. 2021.
- Andreas Adolfsson. Thesis: Practical Approach to Clusterability Evaluation. 2017.
- Jarrod Moore. Thesis: Perturbation Robust Clustering. 2017.
- Akarsh Mallampati, 2022.
- Dahiya Himanshu, 2022.
- Chris Layco, 2021.
- Emily Dang, 2021.
- Jun Chang, 2019-2020.
- Yuhang Qian
- Jonathan Bernel 2017-2019.
- Naimisha Tummuru, 2017-2018.
- Divya Singh 2016-2018.
- Rathna Ramesh 2016-2017.
- Jason Chee 2016-2017.
- Nicolas Mauthes 2016-2017.
- Taylor Brockhoeft 2015-2016.

Completed senior design supervision

- Xavi Anderhub, Uma Bahl, Betty Hou, David Krakauer, 2021-2022.
- Ashley Troske, Edith Gonzales, Nicole Lawson, 2021-2022.
- Dyllon Au, Roland Afarga, Jeremy Reyes, Alayna Wong, 2021-2022.
- Kyle Moore, Jack Guillet, Cole Steere, 2020-2021.
- William Henior, Zak Braber, 2020-2021.
- Arianne Soriano, Katherine Sanchez, 2020-2021.
- Jeffrey Huang, 2020-2021.
- Angela Shoa, 2019-2020.
- Adam Miller, 2019-2020.
- Rachel Goldstein and Andy Vainauskas, 2018-2019.
- Christian Quintero, Matt Jordonsky, Eli Yale, 2018-2019.
- Samantha Song, Samantha Lee, Arshi Jujara, 2018-2019.
- Jason Capili, Mark Hattori, Maile Naito, 2017-2018.
- Ian Santillano, Louis Lin, 2017-2018.

PhD and Masters Committees

- Chenjun Ling. A Study of Multilingual News Search Interfaces. PhD committee. *PhD in Computer Science*. Defended on Sept 6, 2019.
- Justin Marshall. Game Based Visual-To-Auditory Sensory Substitution Training. PhD committee. *PhD in Computer Science*. Defended on Nov 7, 2015.
- Shiva Krishna. PYQUERY: A Python Package and Module Search Engine. *Masters of Computer Science*. Completed on Nov 13, 2015.
- Esra Akbas. Attributed graph clustering. *PhD in Computer Science*.
- Chris Mills. Finding a Needle in the Code Stack: Large-Scale Code Search and Query Reformulation. *PhD in Computer Science*.
- Jennifer Petuch. The Arrows of Time: Time manipulation resulting from the symbiotic relationship of movement and interactive technology. *Masters of Dance*.

Web Profiles

- Google Scholar: <https://scholar.google.com/citations?user=OK4-DgcAAAAJ&hl=en>
- Wikipedia: https://en.wikipedia.org/wiki/Maya_Ackerman