Citlali Trigos-Raczkowski

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EDUCATION

Massachusetts Institute of Technology, GPA: 4.2/5.0 — Sept '15 – June '19 — Cambridge, MA

- Candidate for B.S. in Mathematics with Computer Science
- Relevant Coursework: Design and Analysis of Algorithms, Theory of Computation, Artificial Intelligence, Machine Learning, Real Analysis, Fourier Transform, Probability and Random Variables, Nonlinear Dynamics: Continuum System & Environmental System, Paradox and Infinity
- Published paper: E Heaton, G. Thompson, D, Getzer, R. Negrini, P. Wigand, M. Palacios-Fest, R. Lafever, A. Jacobsen, C. Trigos. (2018). A Great Basin lake-level response to 38-34 ka Dansgaard-Oeschger oscillations. Journal of Paleolimnology. https://link.springer.com/article/10.1007/s10933-018-0057-5
- Primary Interests: Theory of Computation, Artificial Intelligence

RESEARCH

Universidad de Santiago Center of Mathematical Modeling *Researcher* — June '16 – Aug '16 — Santiago, Chile

- Modelled the way that odors from waste treatment plants travel within Santiago
- Evaluated daily changes in pollution and weather using Matlab, CalPUFF, CalPRO and Python
- Conducted research under Professor Axel Ossos' supervision

MIT Synoptic Laboratory *Research Assistant* — Jan '16 – June '16 — Cambridge, MA

- Worked on data visualization for real-time climate change models
- Analyzed big data to extract information on theta and zonal winds
- Collaborated with prof Lodovica Illari in the Earth, Atmospheric and Planetary Sciences Department

California State University Bakersfield *Geological Researcher* — June '13 – Aug '13 — Bakersfield, CA

- Reconstructed the paleoclimate of the Summer Lake region by sampling and testing cores
- Acquired, interpreted and presented the bulk grain size and carbon-nitrogen ratio data
- Worked on Multi-Proxy Paleolake Reconstruction

WORK EXPERIENCE

Capital One Bank *Full-stack Software Engineer* — June '18 – Aug '18 — New York, NY

- Worked on a new application for call center agents *EasyAdmin*
- Used JavaScript, AngularJS, Typescript, CSS, and Git to resurface backend data necessary for servicing customers
- Worked as part of a scrum team with daily standups and weekly groomings

MIT Office of Minority Education *Teacher, Grader* — June '17 – Aug '17 — Cambridge, MA

- Prepared weekly problem sets, taught recitations and held office hours
- Taught freshmen multivariable calculus as a residential facilitator
- Advised incoming students on their first year coursework

IIS G. Falcone High School *Mathematics and MATLAB Teacher* — Jan '17 – Feb '17 — Asola, Italy

- Prepared materials and taught classes on Mathematics and MATLAB
- Taught students about American educational system

MIT Math Department *Tutor, Grader* — Aug '16 to present

- Taught Linear Algebra, Multivariable Calculus, Probability and Differential Equations
- Graded Linear Algebra problem sets, which is an opportunity only offered to top performers in class

LEADERSHIP

MIT Undergraduate Association *Officer on Diversity* — May '17 – June '18

- Implemented a Latinx fly-in program, *Sin Limite*, for admitted students
- Advised the UA Community committee to ensure student groups feel welcome and supported at MIT
- Developed diversity and inclusion initiatives — Cambridge, MA

MIT La Casa *President* — Sept '16 – Sept '17 — Cambridge, MA

- Responsible for organizing alumni events, conferring with other living group presidents
- Led general body meetings for the house twice a month, and was a liaison to administration
- Delegated house and organizational tasks, implemented new codes

MIT Mujeres Latinas *President* — Jan '17 – June '17 — Cambridge, MA

- Led effort to build a community on campus to empower Latinas and create support networks
- Created evets with other cultural groups and networked with different groups beyond MIT
- Worked closely with MIT Administration to spread awareness

INTERESTS & SKILLS

Programming: Proficient in MATLAB, Python, HTML, CSS, JavaScript, AngularJS, Typescript

Languages: English (native), Spanish (fluent), Polish (conversational)

Interests: yoga, running, painting, poetry