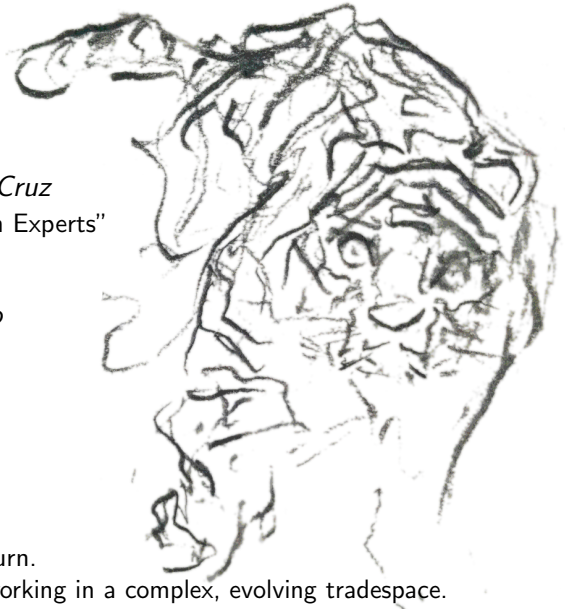


Jasmine T. Otto

Data visualization researcher

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Education

- 2018–present **PhD Candidate, Computational Media, UC Santa Cruz**
“Software Instruments: Creativity Support Tools for Domain Experts”
- 2015–2018 **MS, Applied Math, University of Illinois at Chicago**
- 2012–2015 **BS, Math Comp Sci, University of Illinois at Chicago**
Summa cum laude. Honors thesis in mathematical biology.

Experience

[NASA Jet Propulsion Laboratory](#)

- 2021–2023 **Visualization Developer, NASA JPL**
Developed novel visual analytics tools for Mars Sample Return.
Carried out an iterative design study with key stakeholders working in a complex, evolving tradespace.
- 2021 **Data to Discovery CS Lead, NASA JPL**
Created the MarsIPAN schedule viewer for relay pass allocations of the Mars Sample Return mission.

[University of California, Santa Cruz](#)

- 2018–present **Doctoral Candidate, UCSC**
Developed novel dashboard widgets for MBARI LRAUV operators, supporting situational awareness needs and reducing the cost of onboarding new operators.
 - 2018–2019 **Chancellor’s Fellow, UCSC**
- ### [University of Illinois at Chicago](#)
- 2016–2018 **Graduate Research Assistant, UIC**
Deployed a JupyterHub notebook server to 30+ PHCpack library users.

Publications

- AIIDE 2023 **DendryScope: Narrative Designer Support via Symbolic Analysis**, with Autumn Chen
Forthcoming - AAAI Conference on Artificial Intelligence and Interactive Digital Entertainment
- CasCre 2020 **Entering the Design Space of Digital Portraiture**
Casual Creators Workshop at the International Conference on Computational Creativity
- ELO 2020 **Procedural Montage: A Design Trace of Reflection and Refraction**
Electronic Literature Organization Conference
- CGF 2019 **IGM-Vis: Analyzing Intergalactic and Circumgalactic Medium Absorption...**, with David Abramov, Cassia Artenagara, and Joe Burchett
Computer Graphics Forum
- VISAP 2019 **Data Brushes: Interactive Style Transfer**, with Mahika Dubey
IEEE VIS Arts Program
- VIS 2019 **RuleVis: Constructing Patterns and Rules for Rule-Based Models**, with the Creative Coding Lab and Pierre Boutillier
IEEE Visualization Conference
- SciPy 2019 **Solving Polynomial Systems with phcpy**, with Jan Verschelde
Scientific Computing with Python Conference

Teaching

- 2021 **Visualization Mentor**, *UCSC Data Visualization Collection*
Mentored data analytics work with a NOAA scientist and an undergraduate developer.
- 2020 **Teaching Assistant**, *UCSC*
Taught lab for Game Design Studio, Data Structures for Interactive Media, and Games Systems.
- 2019 **Science Internship Mentor**, *UCSC*
Mentored high school students developing explorable explanations.
- 2018 **SIG Data Organizer**, *ACM@UIC*
Led weekly open labs on selected libraries from SciPy, JavaScript, and Prolog package ecosystems.

Distinctions

- 2017 **Yeuk-Lam Yau-Leung Memorial Scholarship**, in mathematical biology
- 2016 **Participant**, *SMS 2016: Dynamics of Biological Systems*, MSRI