Jasmine T. Otto

Visualization notebook developer

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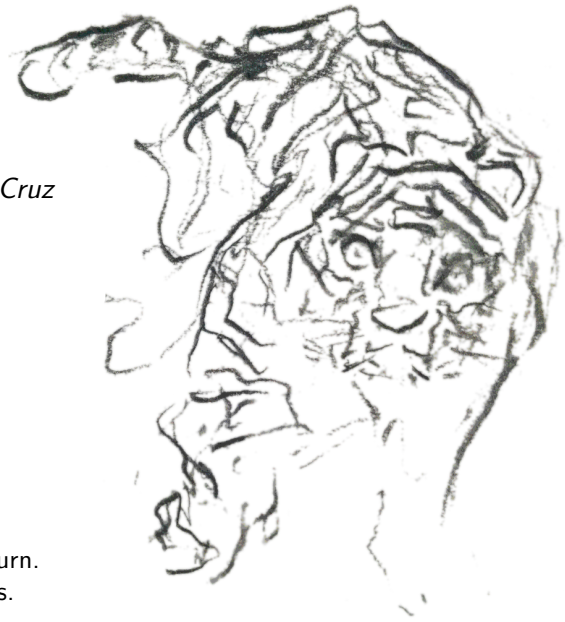

Education

2018–present **PhD Candidate, Computational Media**, *UC Santa Cruz*

2015–2018 **MS, Applied Math**, *University of Illinois at Chicago*
Led a data science SIG at the student ACM.

2012–2015 **BS, Math CS**, *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.
Interviewed key stakeholders throughout an iterative process.

2021 **Data to Discovery CS Lead**, *NASA JPL*
Created a schedule view for a relay pass allocation tool being used by the Mars Sample Return mission.
`https://datavis.caltech.edu/projects/marsipan/`

University of California, Santa Cruz

2018-present **Doctoral Candidate**, *UCSC*
Developed novel dashboard widgets for MBARI LRAUV operators, supporting observability needs and reducing the cost of onboarding.

2019 **Science Internship Program Mentor**, *UCSC*
Mentored high school students developing explorable explanations in a browser-based notebook.

2018-2019 **Chancellor's Fellow (Graduate)**, *UCSC*
Led development on IGM-Vis, an immersive analysis tool for quasar sightlines in the cosmic web.
Led development on RuleVis, a graphical IDE for Kappa Language systems biology models.

University of Illinois at Chicago

2016-2018 **Research Assistant**, *UIC*
Deployed a JupyterHub to 30+ PHCpack users.

Publications

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

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*

Distinctions

2017 **Yeuk-Lam Yau-Leung Memorial Scholarship**, in mathematical biology

2016 **Participant**, *SMS 2016: Dynamics of Biological Systems*, MSRI