

Racquel Fygenson

Work Experience

Ph.D. Student Computer Science, Northeastern University	2020 –	Conducting research in Visualization, advised by Dr. Enrico Bertini and Dr. Lace Padilla. Developing new methods to study and optimize visualizations' impact on the perception of information.
Data Visualization Design Intern NASA JPL, Caltech	Jun. - Aug. 2022	Designed responsive data visualization tools for three internal teams at the NASA Jet Propulsion Lab, as part of Caltech's Data to Discovery Program.
Design, Data Analysis & Visualization Freelance	2017 –	Currently focusing on data-adjacent design projects. Previous work has included a wide range: branding, marketing guidelines, packaging, stages and sets, lighting design, physical products.
Data Science Contractor Laxmi Therapeutic Devices	2020	Cleaned and analyzed amperometric data, and developed algorithms for real-time data processing in glucose sensors.
Visiting Researcher P. Hansma Lab, UCSB	2020	Processed and visualized biometric data to help patients mitigate chronic pain via biofeedback.
Data Visualization Designer, Design Coordinator Crosstown LA	2019	Designed and edited graphs about Los Angeles crime, traffic, and air quality for digital publication. Onboarded new designers to maintain publication standards.
Mech. Engineering Intern Intel Corporation	2016 – 2017	Prototyped wearable technologies for the Smart Device Innovation Team. Wrote methodology for a patent (#US20180188771) and co-authored a paper (DOI:10.1145/3123021.3123045).

Education

Northeastern University College of Comp. Science	2022 –	Ph.D. Student. See work experience.
New York University Tandon Sch. of Engineering	2020 – 2022	M.S. in Computer Science. Ph.D. Student awarded Dean's Fellowship.
Iovine & Young Academy U. Southern California	2015 – 2019	B.S. in Arts, Technology & the Business of Innovation. Specialization in Data Visualization and Mechanical Design .

Skills & Useful Notes

Contact & Portfolio

racquel.fygenson@gmail.com
www.racquelfygenson.com
Location: Boston, MA

Bio

Racquel is a fourth year Ph.D. student at Northeastern's Visualization @ Houry Lab.

She is committed to making data-based information more accessible and impactful through design.

Software & Languages

Python, D3.JS, JavaScript, R, Microsoft Excel, Tableau, SQL, Apache Spark, Arduino, C++, Java, C, HTML, CSS, P5.JS, Processing, WebFlow, web crawling & scraping

Design & Fabrication

Data visualization, Adobe Illustrator, Figma, InDesign, AfterEffects, SolidWorks, typography, digital illustration, design theory, hand & power tools, resin & fiberglass, laser cutting, 3D printing, sewing, soldering, rapid prototyping

Other

UX research, experimental design, human-subjects studies, project management, teaching, presentation design