Nina M. Lutz

ninalutz2015@gmail.com | www.nlutz.me | media.mit.edu/people/nlutz | T 480.285.9998 Experienced product manager and researcher passionate about user and data driven solutions.

Education

Massachusetts Institute of Technology

M.S in Media Arts and Sciences

Massachusetts Institute of Technology

B.S in Computer Science and Engineering with Design

Experience

Product Manager. Redfin

2021 - Present

Collaborating with UX research, design, and engineering to spec out new products. Enacting research and managing the execution and rollout of internal and consumer facing products on Desktop and mobile platforms. Using analysis to benchmark products and surface new findings for other product and strategy decisions. Roadmapping 1-3 year product planning, research, and priorities. Negotiating for external engineering vendors across multiple stakeholders. Presenting and writing for executive audiences across multiple departments.

Research Assistant, MIT Media Lab

2015 - 2021

Research management and software development ranging from exhibition preparations for multiple museums, computer vision research, and interactive web art works. Managing off site deployments and sessions for a variety of academic and industrial institutes internationally and domestically. Managing and mentoring undergraduate students. Writing proposals and scoping projects in teams and for independent research for publication and exhibition. Written and oral presentations at several professional and educational venues.

Research Supervisor

2019 - 2021

Mentoring multiple undergraduates with their research and projects, including planning, overseeing execution, and evaluation.

Instructor; MIT Department of Urban Planning

2019

Developing a one month intensive and semester long courses. Teaching GIS data processing and computation techniques, including implementing data structures and algorithms.

Teaching Assistant

2016 - 2019

Assisted with multiple classes in Computer Science, Design, and Urban Planning for undergraduate and graduate students.

Software Engineering, Apple

2017

Writing software for localization studies and services across a range of Apple products. Utilizing machine learning and various data analysis techniques to understand user trends.

Skills

Software: Java, Python, C++, C, JavaScript, Processing, Unity, Openframeworks

Web: Javascript, CSS, HTML, SQL, Ruby on Rails, three.js, OpenGL, p5.js, d3.js

Electronics: Arduino, Eagle, PID, general electronics and controllers, circuit design

Fabrication: CAD (Rhinoceros and Grasshopper), Photoshop, Illustrator, Lightroom, InDesign, Drafting, Laser cutter, 3D Printer, CNC, Woodworking, Hand tools, Water Jet

Product Management: JIRA, Google Suite, Figma, Heap Analytics

Misc: Tableu, QGIS, ArcGIS, Madmapper, Projection mapping, Optics

Publications

A Methodology For Digitally Augmented Physical Shrines. ACM CHI 2020, Workshop Paper in HCI at End of Life. April 2020 **N. Lutz.** [Presented remote]

Colloidal Luminaries for Architectural Lighting. ACM BuildSys 2019, Demonstration Abstract. November 2019 **N. Lutz**, V. M. Bove.

"Making Up the Unreal." Journal of Design and Science, MIT Press, 23 Oct. 2019, https://jods.mitpress.mit.edu/pub/ristj7wg. **Lutz, N.**

Routing Optimizing Algorithm for Electric Vehicles Applied in North Italy. IEEE Industrial and Commercial Power Systems Europe (2018) M Longo, P Maffezzoni, **NM Lutz**, L Daniel, X Lu.

A predictive model to support the widespread diffusion of electric mobility. IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (2017). M Longo, P Maffezzoni, D Zaninelli, **NM Lutz**, L Daniel

Towards an impact study of electric vehicles on the Italian electric power system using simulation techniques. IEEE 3rd International Forum on Research and Technologies for Society and Industry. M Longo, **NM Lutz**, L Daniel, D Zaninelli, M Pruckner

Analysis of Tourism Dynamics and Special Events Through Mobile Phone Data . Bloomberg Data for Good Conference (2016). Y Leng, A Noriega, AS Pentland, I Winder, N Lutz, L Alonso.

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Teaching	
Invited Guest Instructor, Gallaudet University	2021
Course: Advanced Digital Media	
Professor: Max Kazemzadeh	
Co-Instructor, MIT Department of Media Arts and Sciences	2021
Course: DeCentering: Aesthetic Labor and Performance	
Co-Instructor: Katlyn Turner, PhD	
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Teaching Assistant, MIT Department of Urban Studies and Planning	2019
Course: 11.S187: Hack the City	
Instructor: Yuan Lai, PhD	
Co-Instructor, MIT Department of Urban Studies and Planning	2018
Course: 11.S195: Computational Urban Science Workshop	
Co-Instructor: Ira Winder	
Teaching Assistant, MIT Department of Architecture	2019
Course: 4.043: Advanced Interaction Design	2010
Instructor: Marcelo Cohelo, PhD	
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Exhibits and Demonstrations

Professor: V. Michael Bove, PhD

Exhibits:

Infinity Tunnel; Instruments of Vision; MIT Museum Gallery
Turning Light; Council Arts MIT Arts on the Radar
Connected Coral; MIT Museum

Teaching Assistant, MIT Department of Media Arts and Sciences

Course: MAS.A19: Designing Consumer Electronics

Dec 2019 - March 2020 Sept 2019 Nov 2018 - Apr 2019

2016 - 2017

Demonstrations:

Colloidal Luminaries; BuildSys 2019; Demonstration Award Bits and Bricks; IEEE FTC with Ira Winder MIT Media Lab Members Week Oct 2019 Nov 2017 Twice yearly, 2015 - 2021

Research Deployments

GSK Places Project | Upper Providence, PA | MIT Media Lab City Science Spring 2018 Senior software developer for an internal tool for architectural site planning at GSK. Built physical interface on site and led workshops.

GSK UK Manufacturing | Stevenage, UK | MIT Media Lab City Science Summer 2017 Assisted with deploying, documenting technology and front end development.

Singapore Pedestrian Accessibility | Singapore and Cambridge, MA Summer 2016
Assisted with developing interface that was deployed in Singapore and workshopped in
Cambridge. Lead design part of workshop. Built backend and data processing of software.

Awards and Grants

Graduate Community Fellow for Institute Community Equity Office SIGMOBILE Travel Grant
Best Demonstration Runner Up at ACM BuildSys
MIT Media Lab Members Week Front Page Feature

CAMIT Director's Grant

Best Demonstration at IEEE FTC with Ira Winder

Invited Talks, Presentations, Lectures, and Critique

Guest Lectures and Invited Talks:

11.S187: Hack the City	Spring 2020
11.526: Land Use and Transportation Planning	Spring 2020
Luxembourg Fashion Week	Fall 2019

Invited Critic:

11.S187: Hack the City	Winter 2020
11.205 Introduction to Spatial Analysis	Spring 2019
4.043: Advanced Interaction Design Studio	Spring 2019
11.S195: Computational Urban Science Workshop	Spring 2018

<u>Undergraduate Students Advised</u>

Spring 2021: Skylar Kolisko (Wellesley)

Spring 2020: Omoruyi E Atekha (MIT, Stanford)

Fall 2019: Omoruyi E Atekha (MIT, Stanford), Elliot Seaman (MIT), Jessica Wang (MIT) Summer 2019: Elliot Seaman (MIT), Jessica Wang (MIT). Mikayla Bufford (U Madison)

Spring 2019: Elliot Seaman (MIT) Spring 2018: Max Raven (MIT)

Committees, Community, and Outreach

Paseo Foundation, Instructor	2021-2022
Media Arts and Sciences Student Committee, Large Events Chair	2019-2021
Urban Science Steering Committee, Student Member	2019
Clubes de Ciencia, Instructor	2019
Institute Community Equity Office Graduate Community Fellow	2018