RUOYU LI

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NYU graduate student pursuing a degree in urban data science, specializing in remote sensing, spatial analytics, and environmental research. Advocate for light pollution control. Experienced with startups and NGOs.

SKILLS

Machine Learning | Spatial Analytics | Causal Inference | Remote Sensing: Hyperspectral & LiDAR

Tools: Python | R | MATLAB | Java | Google Earth Engine | ArcGIS Pro | QGIS | CloudCompare | Tableau | Alteryx

EDUCATION

New York University, *New York, NY | Expected May 2026*
- **MS, Applied Urban Science and Informatics,** Center for Urban Science + Progress (CUSP), Tandon
- **Honors:** Tandon's highest merit scholarship | CUSP Experiential Scholars
- **Capstone:** Urban Colocation Intelligence: Mapping Amenity Clusters and Dependency Networks Using Open-Source POI Data (Project Sponsor: Foster + Partners & NYU)
- **Activities:** American Society for Photogrammetry and Remote Sensing (ASPRS) NYU Chapter (Founding Treasurer) | NYC Geospatial Information Systems and Mapping Organization (GISMO) (Student & Open Tech Committee) | Vertically Integrated Projects (VIP) Urban Remote Sensing Team (Hyperspectral Image Analysis) | Public Data Challenge (Finalist) | Global Data Dive (3rd Place) | Tandon Capstone Competition (Selected)
- **Volunteers:** Climate Week NYC | World Environment Day | NYC School of Data | CityCamp NYC

Columbia University, *New York, NY | Jul 2021*
- **Graduate Certificate in Advanced Business**

University of Arizona, *Tucson, AZ | May 2019*
- **BS, Mathematics | BS, Information Science and Technology**
- **Minors:** Statistics and Data Science | Finance | Computer Science
- **Certificate:** Entrepreneurship and New Venture Development
- **Honors:** Academic Distinction | Dean's List with Distinction | Dean's List | Director's List
- **Activities:** Arizona Chinese Culture Club (Co-founder & VP) | Association of Chinese Students and Scholars (Marketing Director) | McGuire New Venture Development Program (Finalist) | Putnam Mathematical Competition | Hack Arizona | Design Thinking Challenge

EXPERIENCES

DarkSky International, *Tucson, AZ*
New York State & Beijing Chapter Leader | Mar 2015 - Present
- Led advocacy efforts for light pollution control in New York State and in China.
- Established China's first International Dark Sky Community in Shenzhen.

Information Technology Manager & Regional Engagement Associate | Oct 2023 - Aug 2024
- Managed IT infrastructure to improve efficiency; provided support for staff and advocates.
- Enhanced regional engagement and developed DarkSky's China strategy.

China Academy of Urban Planning and Design, *Shenzhen, China*
Intern (Research Center for Urban Lighting Planning and Design) | Nov 2023 - Jan 2024
- Contributed to citywide lighting master plans and participated in public lighting art installation projects.
- Co-authored the *Urban and Rural Dark Sky Places Planning Standards*.

Eco Green Recycle Corp., *San Juan, Puerto Rico*

Co-President | Aug 2019 - Aug 2023
- Supervised daily operations; employed data-driven strategies to enhance production & financial performance.

National Museum of Mathematics, *New York, NY*

Intern | Jun 2018 - Aug 2018
- Alternated between roles in administration, museum docent, and retail assistant.

Arizona/NASA Space Grant Consortium, *Tucson, AZ*

Research Intern (ASCEND! Program) | Sep 2014 - May 2016
- Member of a statewide aerospace student program, design-build-fly-operate-analyze small payloads for launch from high altitude (100,000 feet) weather balloons.

National Astronomical Observatories (NAOC), Chinese Academy of Sciences (CAS), *Beijing, China*

Research Intern | Jun 2015 - Jul 2015
- Participated in a sky survey research project, learned data processing, and studied professional telescope operations on-site.

PUBLICATIONS & PRESENTATIONS

Author:
- Li, R. (2022, June 20). Dark Sky State: Arizona, US, *Chinese National Astronomy, 16*(6), 30-33.

Organizer, Planning Committee, & Host:
- DarkSky Global Conference, *Virtual, 2021 & 2023*
- Forum for the Dark and Quiet Sky Protection, International Year of Basic Sciences for Sustainable Development (IYBSSD), *Hebei, China, 2023*
- International Dark Sky Week x NYU CUSP, *New York, NY, 2025*
- Climate Week NYC x SEE the Future Forum: Entrepreneurship and Coalition-Building for Global Climate Action, *New York, NY, 2025*

Interviewee:
- Bi-City Biennale of Urbanism/Architecture (UABB) of Shenzhen and Hong Kong, *2022*
- *News and Science*, Hunan TV, *2024*
- Island Stars, *2025*
- New York Times, *2025*

Invited Speaker:
- Student Seminar, National Astronomical Observatories (NAOC), CAS, *Beijing, China, 2015*
- Academic Salon, Youth Innovation Promotion Association, NAOC, CAS, *Beijing, China, 2022*
- "Under One Sky" Live Event, UABB of Shenzhen and Hong Kong, *Guangdong, China, 2022*
- Forum for the Dark and Quiet Sky Protection, IYBSSD, *Hebei, China, 2023*
- The Fifth Star Party of the Yangtze River Delta, *Zhejiang, China, 2023*
- Hangzhou High School, *Zhejiang, China, 2023*
- Ningbo Haishu District Government, *Zhejiang, China, 2023*
- Yangzhou Urban Lighting Management Office, *Jiangsu, China, 2023*
- Guangdong-Hong Kong-Macao Greater Bay Area Dark Sky Astronomy Festival, *Guangdong, China, 2024*
- Brooklyn Heights Garden Club, *New York, NY, 2025*
- Dark Sky and Territorial Spatial Planning (class), Guangzhou University, *Guangdong, China, 2025*

Speaker, Poster, & Lighting Talk:
- DarkSky Global Conference, *Phoenix, AZ, 2015 / Tucson, AZ, 2016 / Boston, MA, 2017 / Salt Lake City, UT, 2018*

- NYC Open Data Week x GISMO, *New York, NY, 2025*
- Tandon Capstone Showcase, *New York, NY, 2025*
- CUSP Summer Research Showcase, *New York, NY, 2025*