

## Shweta U. Narkar, Ph.D.

Postdoctoral Research Associate, Rensselaer Polytechnic Institute, Troy, NY 12180

+1 (646) 239-5325 | shweta.3695@gmail.com | [linkedin.com/in/shwetanarkar](https://www.linkedin.com/in/shwetanarkar) | [bit.ly/googlescholarnarkars](https://bit.ly/googlescholarnarkars)

### EDUCATION

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Rensselaer Polytechnic Institute, Troy, NY Ph.D. in Computer Science (Multidisciplinary: Computer Science & Astrobiology) <i>Advisors: Dr. James A. Hendler and Dr. Karyn L. Rogers</i>	May 2025
Rensselaer Polytechnic Institute, Troy, NY M.S. in Data Science & Analytics <i>Advisor: Dr. Peter A. Fox</i>	May 2019
University of Pune, Pune, India B.E. in Computer Engineering	Aug 2017

### POSITIONS HELD

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Postdoctoral Research Associate, Rensselaer Astrobiology Research and Education Center Rensselaer Polytechnic Institute, Troy, NY	Aug 2025 – Present
AI/ML & Data Scientist (Volunteer) Mirro.ai, Remote	Feb 2026 – Present
PhD Research Assistant, Applied ML & Data Science Rensselaer Polytechnic Institute, Troy, NY	May 2021 – May 2025
Machine Learning Research Intern IBM Research, Yorktown Heights, NY	May – Sept 2020
PhD Research Assistant, Scientific Data Systems Rensselaer Polytechnic Institute, Troy, NY	Jun 2018 – Apr 2021

### PUBLICATIONS

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#### Peer-Reviewed Articles

**Narkar, S.U.**, et al. Model LineUpper: Supporting Interactive Model Comparison at Multiple Levels for AutoML. *Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI)*, 2021.

**Narkar, S.U.**, et al. Cluster Analysis of Presolar Silicon Carbide Grains: Evaluation of Their Classification and Astrophysical Implications. *Astrophysical Journal Letters*, 2021.

#### In Preparation

**Narkar, S.U.**, Riggi, V.S., Rogers, K.L., Hendler, J.A. POLO: A Formal Ontology for Experimental Prebiotic Chemistry. To be submitted to the International Semantic Web Conference (ISWC).

**Narkar, S.U.**, Riggi, V.S., Hendler, J.A., Rogers, K.L. A Data Ingestion Framework for Experimental Prebiotic Chemistry. In preparation.

**Narkar, S.U.**, Riggi, V.S., Hendler, J.A., Rogers, K.L. Predictive Modeling and Analysis of Prebiotic Chemistry Experimental Data. In preparation.

### PRESENTATIONS

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#### Invited Talk

**Narkar, S.U.** Leveraging Computational and Semantic Technologies in Understanding Prebiotic Chemistry. *Geological Society of America*, 2023.

#### Talk

**Narkar, S.U.** Enabling Semantic Technologies and eScience for Exploring the Prebiotic Chemistry Experimental Landscape. *Astrobiology Science Conference (AbSciCon)*, 2024.

## TEACHING EXPERIENCE

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### Rensselaer Polytechnic Institute

#### Courses Taught

Teaching Assistant, Computer Science I 2023  
Teaching Assistant, Econometrics in Big Data with R 2018

#### Students Mentored

Undergraduate Research Advisor, Undergraduate Research Program 2025 – Present  
Undergraduate Research Advisor, Rensselaer Research Experience Program 2019  
Graduate Student Mentor (2 students) 2025 – Present  
High School Research Mentor (1 student) 2025 – Present

## HONORS AND AWARDS

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RPI Founders Award of Excellence, Rensselaer Polytechnic Institute 2018

## SERVICE

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### Geological Society of America

*Student Officer*, Geoinformatics & Data Science Division 2019 – 2023  
*Interim Secretary-Treasurer*, Geoinformatics & Data Science Division 2024

## AFFILIATIONS

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Geological Society of America  
American Geophysical Union

## TECHNICAL SKILLS

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**Programming:** Python, R

**Machine Learning & Data Science:** scikit-learn, pandas, NumPy, statistical modeling, PyTorch, SHAP

**Data Systems & Tools:** MongoDB, PostgreSQL, Git, Docker, Azure DevOps, Jupyter, GCP, GitHub

**Semantic Web & Ontologies:** OWL/RDF, RML Mapping, SPARQL

**Visualization:** Matplotlib, Seaborn, ggplot2, D3.js