

# Rimmo Loyi Lego

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**Languages:** Tani, Ao Naga (A2), Assamese, Nagamese, English, German (C1), Hindi (B1), Chinese (A1)

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## Education

*Stevens Institute of Technology*

Bachelor's in Biomedical Engineering, Minors in Biology & Pre Health

*Expected May 2026*

*Achievements:* Global Presidential Scholarship, Dean's List

*Coursework:* Immunology, Mechanics, Dynamic Systems, Statics, Biochemistry, Cell Biology

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## Work and Research Experience

**Research Assistant, Stevens Institute of Technology**

February 2025- Present

- Working with Dr. Chang-Hwan Choi on understanding radiation protection of Silica based Hydrogels

**Research Assistant, Stevens Institute of Technology**

October 2024 - Present

- Working with Dr. Baptiste on RACK1 and miRNA biogenesis in eukaryotic organisms, focusing on *C. elegans*

**Undergraduate Research Assistant, University of Liverpool**

March. 2024 - December 2024

- Worked with Dr Ahmed Abass, as an exchange student in investigating the mechanical properties of Silica Hydrogels stimulating the environment of the Human Eye

**Student Researcher**

Jan. 2024 - May 2024

- Collaborated with Dr. Cheema on a systematic review and meta-analysis on conservative management vs. early treatment of patent ductus arteriosus.

**Student Intern, Health Dept. Govt of Arunachal**

Dec 2023- Feb 2024

- Assisted in developing and implementing Deep Learning models, including RNNs using DL4J (Java), to analyze drug use patterns in remote areas of NE India

**Delegate to Student Conference on United States Affairs, West Point**

Nov. 2023

- Collaborated on a policy brief promoting equitable healthcare and political stability in sub-Saharan Africa, providing an international perspective on U.S. foreign policy.

**Virtual Immersion in Biomedical Engineering., WPI**

May. 2023- July.2023

- Worked on designing and implementing a cost-effective prosthetic for amputees in conflict-prone areas. Worked with Machine learning with Julia.

**Intern, VECC, Department of Atomic Energy, Govt. of India**

July. 2023-August. 2023.

- Worked and Oversaw quality control and production processes of cyclotron-produced, radiolabeled iodine-123, isotope- which was produced for the first time in India.

**Emergency Medical Services, City of Hoboken**

Feb. 2023 - October 2024

- Serving as an EMT assistant at Hoboken EMS within the probationary period, actively assisting in responding to medical emergencies and dispatch calls.

**Lab Assistant, Stevens Institute of Technology**

Jan. 2023 - December. 2023

- Worked with Dr. Weickenmeier to understand the Fluid Attenuated Inversion Recovery Imaging technique in the cases of Alzheimer's and white matter hyperintensities.

**Research Assistant, Stevens Institute of Technology**

August 2023 - Mar 2024

- Worked under Dr. Ansu Perekat to Develop R programs to generate heat maps of gene datasets for oncology research.

## Research & Publications

- Lego, Luke Rimmo. "The 431-404 BC Peloponnesian War in Ancient Greece." *History Is Now Magazine*, March 6, 2025.
- Kumar, Rajanikant, Efeoghene Praise Epia, Mark W. Abdelnour, Joo Young Belen Kim Kim, Anne Boakyewaa Anokye-Kumatia, Rimmo Loyi Lego, Vrunda Kulkarni, Syed Ali Farhan Abbas Rizvi, Maryam Asif, Huzaifa Ahmad Cheema, Adeel Ahmad, Wajeeh Ur Rehman, Raheel Ahmed, and Sourbha S. Dani. 2025. "Conservative Management of Patent Ductus Arteriosus in Preterm Infants: A Systematic Review and Meta-Analysis of Randomized Controlled Trials." *Progress in Pediatric Cardiology* 76: 101774. <https://doi.org/10.1016/j.ppedcard.2024.101774>.
- Asif, M., Kumar, R., Epia, E. P., Abdelnour, M., Kim, J. Y. B., Anokye-Kumatia, A. B., Kulkarni, V., Lego, R. L., Rizvi, S. A. F. A., Cheema, H. A., Ahmad, A., Rehman, W., Ahmed, R., & Dani, S. "Conservative Management of Patent Ductus Arteriosus in Preterm Infants: A Systematic Review and Meta-Analysis of Randomized Controlled Trials." *Circulation* 150(Suppl\_1) (2024): A4140224–A4140224. [https://doi.org/10.1161/circ.150.suppl\\_1.4140224](https://doi.org/10.1161/circ.150.suppl_1.4140224).
- Lego, R. "Women and the French Revolution: The Start of the Modern Feminist Movement." *The Historian*, Historical Association of the United Kingdom, 2024.
- Lego, R. "Language Enforcement in India: Nationalism or Prejudice?" *YGS • Young Global Scientists* no. 7 (November 2023).
- Towler, Joseph, Roberto Montiel, Nikhil Murari, Markus Zaplachinski, Christine Deng, Luke Lego, and Ahmed Abass. "Hydration Behavior of Silicone Hydrogels." September 19, 2024.
- Lego, R. (2023). "Study of Antibiotic Resistance in *E. coli* against Allopathic Drugs as Compared to Natural Herbs." *Journal of Scientific Exploration* 36 (4).

## Ventures

*Founder*, the Tani Language Foundation, which is a non profit working on preserving the Tani Language and Culture. Tani is one of the most widely spoken languages in the states of Arunachal and Assam, in India and is also one of the smallest minority languages of China. This organization was featured in India's National Newspaper: *The Hindustan Times*.

## Extracurriculars

International Student Mentor, Peer Leader (International Students), Academic Tutoring, Launchpad, Leaders in Technology Student Cohort, Founder and President of the Stevens Debate Club, Vice President Pokemon Go Club, Vice President International Student Association, Deputy Under Secretary General of Northeastern International Model United Nations , Member International Association for Political Science Students (IAPSS)

## Honors

National Talent Search Examination Scholar (National India), State Silver Science Olympiad, State Bronze Cyber Olympiad, Global Presidential Scholarship (Stevens), Launchpad, AED Member (Honors Society for Health Professional Students in America), Consecutive Dean's List at Stevens, Runner's Up 9th MCN Ocean Prize.