

Anschutz Health Sciences Building, 1890 N Revere Ct, Aurora, CO 80045; JRavi Lab: Rm P12-6290, Krishnan Lab: Rm P12-7002

□ (+1) 978-489-5816 | 🗷 kewalin.samart@cuanschutz.edu | 🖫 KewalinSamart | 🛅 kewalinsamart 🎓 Kewalin Samart

Education _

University of Colorado Denver, Anschutz Medical Campus (CU Anschutz)

Aurora, Colorado

Aug 2022 – present

DOCTOR OF PHILOSOPHY IN COMPUTATIONAL BIOSCIENCE

- Thesis Advisors: Dr. Arjun Krishnan, and Dr. Janani Ravi (co-primary)
- C. Werner and Kitty Hirs Fellowship

Michigan State University (MSU)

East Lansing, Michigan

B.Sc. in Computational Mathematics; Minor in Computational Math, Science, and Engineering

May 2022

- High Honor (Summa Cum Laude)
- McCartney Math Award, L.C. Plant Math Award, College of Natural Science Scholar
- Cumulative GPA: 3.98/4.00; Major GPA: 4.00/4.00
- Dean's Honor List: Fall 2018 Spring 2022
- Royal Thai Government Scholarship Recipient 2017

Skills _

Programming Languages R, Python, C++, TeX

Computational Tools Git, vi, Terminal, Unix/Linux, High-performance/ Cluster computing, LaTeX

Publications _

- Kewalin Samart**, Phoebe Tuyishime**, Arjun Krishnan*, Janani Ravi*. Reconciling multiple connectivity scores for drug repurposing. Briefings in Bioinformatics (2021) doi.org/10.1093/bib/bbab161; **co-primary authors; *corresponding authors <u>GitHub:</u> github.com/jravilab/connectivity_scores; <u>Live doc:</u> jravilab.github.io/connectivity_scores
- Janani Ravi, Kewalin Samart, Jason Zwolak, John Tyson. Modeling the START transition in the budding yeast cell cycle. *In preparation.* Online simulator: http://sbmlsimulator.org/simulator/by-start
- Kewalin Samart, Amy Tonielli, Arjun Krishnan, Janani Ravi. Integrating multiple transcriptome-based methods for drug repurposing in tuberculosis. In preparation.

Presentations _

Research/Technical Talks

- Rworkshop at Global Alliance for Rapid Diagnostics (GARD). Virtual, Mar. 21, 2023. Presentation material: github.com/jananiravi/R_intro
- 2nd Latin American Congress of Women in Bioinformatics and Data Science (WBDS LA). Virtual, Sep. 23, 2021.
- 29th Conference on Intelligent Systems for Molecular Biology and the 20th European Conference on Computational Biology (ISMB/ECCB). Virtual, Jul. 25, 2021.
- · R-Ladies Pune. Virtual, May. 9, 2021. Presentation material: github.com/KewalinSamart/Rladies-lightning-talk-distill

Poster Presentations

- Colorado Immunology and Microbiology conference. Vail, CO, Sep. 24 26, 2022.
- Intelligent Systems for Molecular Biology, ISMB 2022, International Society for Computational Biology flagship conference. Virtual, Jul. 11 - 12, 2022.
- 2nd Latin American Congress of Women in Bioinformatics and Data Science (WBDS LA), Virtual, Sep. 22 24, 2021.
- 2021 Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE). Virtual, Jul. 28, 2021.
- 29th Conference on Intelligent Systems for Molecular Biology and the 20th European Conference on Computational Biology (ISMB/ECCB). Virtual, Jul. 25 – 30, 2021.
- 2021 Great Lakes Bioinformatics Conference (GLBIO). Virtual, May 10 13, 2021.
- 2021 University Undergraduate Research and Arts Forum (UURAF). Virtual, Apr. 15 19, 2021.
- 2020 Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE). Virtual, Aug. 10, 2020.

• Repurposing drugs for diseases. The Sci-Files on Impact 89FM Episode 11 Season 6, Aug. 1, 2021. Podcast: https://impact89fm.org/101365/podcasts/the-sci-files-08-01-2021-kewalin-samart-repurposing-drugs-for-diseases/

Peer Review

Academic Journals Contributed to peer review at PROS ONE

Honors/ Awards/ Scholarships.

Aug 2022 C. Werner and Kitty Hirs Fellowship, University of Colorado Denver, Graduate School

Aurora, CO

May 2022 High Honor (Summa Cum Laude), Michigan State University	East Lansing, MI
Apr 2022 McCartney Mathematics Award, MSU Department of Mathematics	East Lansing, MI
Oct 2021 Fall 2021 CNS Undergraduate Research Scholarship, MSU College of Natural Science	East Lansing, MI
May 2021 Summer Research Scholarship , EnSURE program – MSU College of Engineering	East Lansing, MI
Jan 2021 Spring 2021 CNS Undergraduate Research Scholarship, MSU College of Natural Science	East Lansing, MI
Oct 2020 Fall 2020 CNS Undergraduate Research Scholarship, MSU College of Natural Science	East Lansing, MI
May 2020 Summer 2020 CNS Undergraduate Research Scholarship , MSU College of Natural Science Apr 2020 L.C. Plant Mathematics Award Scholarship , MSU Department of Mathematics	East Lansing, MI East Lansing, MI
Jan 2020 Spring 2020 CNS Undergraduate Research Scholarship, MSU College of Natural Science	East Lansing, MI
Mar 2018 Academic Excellence Award (High Honor), Lawrence Academy	Groton, MA
Dec 2017 Academic Excellence Award (Honor), Lawrence Academy	Groton, MA
May 2017 Full-Ride Scholarship, BIOTEC, Royal Thai Government	Bangkok, Thailand
Research Experience	
JRavi and Krishnan Labs; Pls: Dr. Janani Ravi and Dr. Arjun Krishnan	Jul 2023 – present
DEPARTMENT OF BIOMEDICAL INFORMATICS, CU ANSCHUTZ	Aurora, CO
Graduate researcher	
Zhang Lab; PI: Dr. Fan Zhang	Mar 2023 – May 2023
DEPARTMENT OF BIOMEDICAL INFORMATICS, CU ANSCHUTZ	Aurora, CO
Graduate researcher; Rotation student	
Kechris Lab; PI: Dr. Katerina Kechris	Jan 2023 – Mar 2023
DEPARTMENT OF BIOSTATISTICS AND INFORMATICS, CU ANSCHUTZ	Aurora, CO
Graduate researcher; Rotation student	
Krishnan Lab; PI Dr. Arjun Krishnan	Mar 2021 – May 2022
MSU DEPERTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE, AND ENGINEERING	East Lansing, MI
Undergraduate researcher in computational biology	
JRavi Lab; Pl: Dr. Janani Ravi	Dec 2019 - May 2022
MSU DEPARTMENT OF PATHOBIOLOGY AND DIAGNOSTIC INVESTIGATION	East Lansing, MI
Undergraduate researcher in computational biology	
Teaching Experience	
CPBS 7712: Research Methods in Biomedical Informatics	Jan 2024 – May 2024
COMPUTATIONAL BIOSCIENCE PROGRAM, CU ANSCHUTZ	Aurora, CO
Education assistant	
CMSE 202: Computational Modeling and Data Analysis II	Jan 2022 – Apr 2022
MSU DEPERTMENT OF COMPUTATIONAL MATHEMATICS, SCIENCE, AND ENGINEERING	East Lansing, MI
Undergraduate learning assistant (LA) with Dr. Luciano Silvestri	
University Service/ Leadership	
Committee Member	Aurora, CO
COMPUTATIONAL BIOSCIENCE PROGRAM RETREAT	2022-2023 Academic Year
Planned and organized the annual retreat for the Computational Bioscience graduate program.	
Committee Member	East Lansing, MI
A REPRESENTATIVE ON BEHALF OF MSU COLLEGE OF NATURAL SCIENCE FOR	Fall 2021 – Spring 2022
the University Academic Grievance Hearing Board	
the University Academic Integrity Hearing Board the University Academic Appeal Board	
the University Academic Appeal Board	
Extracurricular/ Volunteer Activities	
Jul 2023 2023 Summer Academy, SACNAS at CU Anschutz , Helped set up program activities	Aurora, CO
$ \hbox{\it Jul 2021} \ \ \textbf{useR! 2021 The R Conference}, \ \hbox{\it MaRmot; Helped provide program information to participants} $	Virtual
2021- International Society for Computational Biology (ISCB), Member	Leesburg, VA
2021 - Association for Women in Mathematics (AWM), Member	Providence, RI

2021–2022 MSU Women in STEM, Member	East Lansing, MI
2020–2022 Women + Data Science , Member	East Lansing, MI
2019–2022 R-Ladies East Lansing , Member	East Lansing, MI
2018–2022 MSU Thai Student Association (ThaiSA), Member	East Lansing, MI
Jul 2018 Burirum Pitthayakhom School , Assisted in the educational guidance seminar for K-12 students	Burirum, Thailand
Mar 2018 The Arc of Opportunity in North Central Massachusetts, Cared for people with disabilities	Fitchburg, MA
2017–2018 Math Club, Member	Groton, MA
2017–2018 Stage Crews , Member; 6 hours/week working and learning art and technician skills for stage plays	Groton, MA
2017–2018 LA Singers (High School Choir) , Member; Soprano	Groton, MA
Nov 2017 Rise Against Hungers . Assisted in cooking foods/desserts and organized fundraising tables	Groton, MA