

Kewalin Samart

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Education

2018–2022	Michigan State University (MSU) – East Lansing, MI BSc in Computational Mathematics Minor in Computational Mathematics, Science, and Engineering (CMSE) Department GPA: 4.00/4.00 Cumulative GPA: 3.97/4.00
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Computer Skills

Languages	R, Python, C++, MATLAB, TeX
Software	Git, LaTeX, Microsoft Office, iMovies

Research Experience

2019–present	Undergraduate Researcher in JRavi Lab Department of Pathobiology and Diagnostic Investigation, MSU
2021–present	Undergraduate Researcher in Krishnan Lab Department of Computational Mathematics, Science, and Engineering, MSU

Research Projects

2019–present	Project title: A Computational Approach to Repurpose Drugs Against Infectious Diseases Research mentors: Dr. Janani Ravi and Dr. Arjun Krishnan - Developing a computational framework for drug repurposing based on host-directed therapies to tackle infectious diseases.
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Publications/ Preprints

Sep 2020	Samart K* , Tuyishime P*, Krishnan A**, Ravi J**. <i>Reconciling multiple connectivity scores for drug repurposing.</i> <u>arXiv:</u> https://arxiv.org/abs/2009.09317 <u>GitHub:</u> https://github.com/jravailab/connectivity_score_review <u>Live doc:</u> https://jravailab.github.io/connectivity_score_review/ *co-primary authors; **co-corresponding authors.
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Presentations

Aug 2020	Poster at Mid-Michigan Symposium for Undergraduate Research Experiences Poster title: Determining the Optimal Disease-Drug Connectivity Score Summarization Metric for Drug Repurposing
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Honors/ Awards/ Scholarships

2018–2020	Dean's Honor List Fall 2018/ Spring 2019/ Fall 2019/ Spring 2020/ Fall 2020 Michigan State University – East Lansing, MI
Jan, May, Oct 2020	CNS Undergraduate Research Scholarships Spring 2020/ Summer 2020/ Fall 2020 MSU College of Natural Science – East Lansing, MI
Apr 2020	L.C. Plant Mathematics Award Scholarship MSU Department of Mathematics – East Lansing, MI
May 2018	Academic Excellence Award (High Honor) Lawrence Academy – Groton, MA
Dec 2017	Academic Excellence Award (Honor) Lawrence Academy – Groton, MA
2017–present	Full-Ride Scholarship for Undergraduate, Master's, and Ph.D. Studies from National Center for Genetic Engineering and Biotechnology (BIOTEC) Royal Thai Government – Bangkok, Thailand

Volunteer Experience

Jul 2018	Burirum Pitthayakhom School – Burirum, Thailand - Assisted in the educational guidance seminar for high school students
Mar 2018	The Arc of Opportunity in North Central Massachusetts – Fitchburg, MA - Cared for people with disabilities
Nov 2017	Rise Against Hunger – Groton, MA - Assisted in cooking foods/desserts and organized fundraising tables

Extracurriculars

2019–present	Member of R-ladies East Lansing East Lansing, MI
2018–present	Member of MSU Thai Student Association (ThaiSA) Michigan State University – East Lansing, MI
2017–2018	Member of Math Club Lawrence Academy – Groton, MA - Created and organized math events and tutoring sessions during semesters
2017–2018	Member of Stage Crews Lawrence Academy – Groton, MA - 6 hours/week working with the crew team and learning art and technician skills for stage plays
2017–2018	Member of LA Singers (High School Choir) Lawrence Academy – Groton, MA
