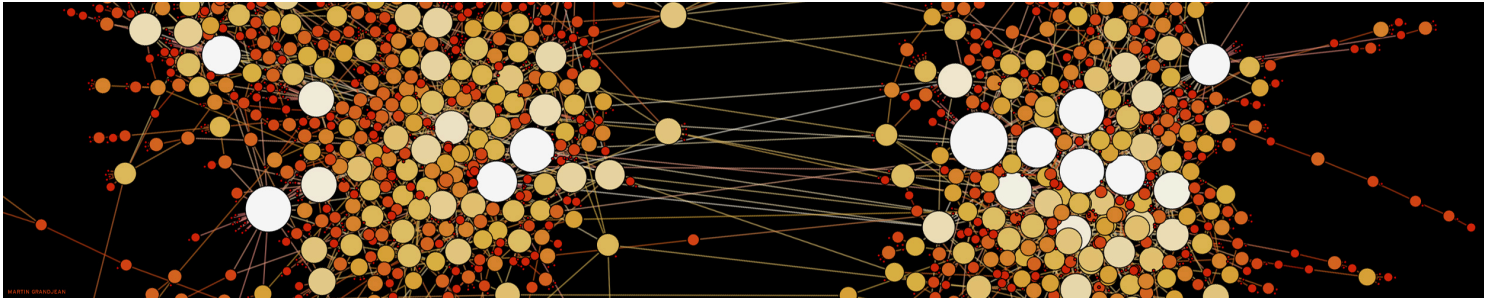UNIVERSITY OF MARYLAND (HTTPS://UMD.EDU)

COLLEGE OF
COMPUTER, MATHEMATICAL,
& NATURAL SCIENCES

(/)

Bioinformatics and Computational Biology - Master of Science

Home (/) - Graduate Education (/Graduate) - Science Academy (/Graduate/Science-Academy) - Bioinformatics And Computational Biology - Master Of Science

Bioinformatics And Computational Biology - Master Of Science

Join us for a virtual information session to learn more about our programs!

Tuesday, February 24, 2026

11am - 12pm ET

Zoom

REGISTER NOW (https://umd.zoom.us/meeting/register/WRyev5GRSsmll3mwe8aDlA)

Engage in cutting-edge learning with the Master of Science in Bioinformatics and Computational Biology. The **MS in Bioinformatics and Computational Biology** provides education in the theory and practice of the major current areas in the field including problem contexts, mathematical and statistical foundations, computational approaches, communication, and ethical, privacy and legal considerations. In addition to the fundamentals of bioinformatics and computational biology, the program covers relevant probability and statistics, data structures and algorithms, and machine learning. Students who successfully

complete the MS in Bioinformatics and Computational Biology will be able to identify, choose, describe, explain, and apply bioinformatics and computational biology methods to problems in biology and biomedical research. The program is offered through the Science Academy in the College of Computer, Mathematical, and Natural Sciences.

The **MS in Bioinformatics and Computational Biology** is a 30-credit graduate program designed for working professionals and can be completed in less than two years. Instruction is provided by UMD faculty and experts in the field. The program features instructional delivery through face-to-face instruction at the UMD College Park campus (https://gradschool.umd.edu/admissions/choose-maryland/prime-location), mostly in the evenings.

Application Deadlines

Fall 2026

International Deadline: February 27, 2026

Domestic Deadline: May 29, 2026

APPLY NOW (HTTPS://GRADSCHOOL.UMD.EDU/ADMISSIONS/APPLICATION-PROCESS/STEP-STEP-GUIDE-APPLYING)

+ Admission Requirements

+ Plan of Study & Courses

+ Tuition & Fees

Program Director

(/people/michael-cummings)

Michael Cummings (/people/michael-cummings)

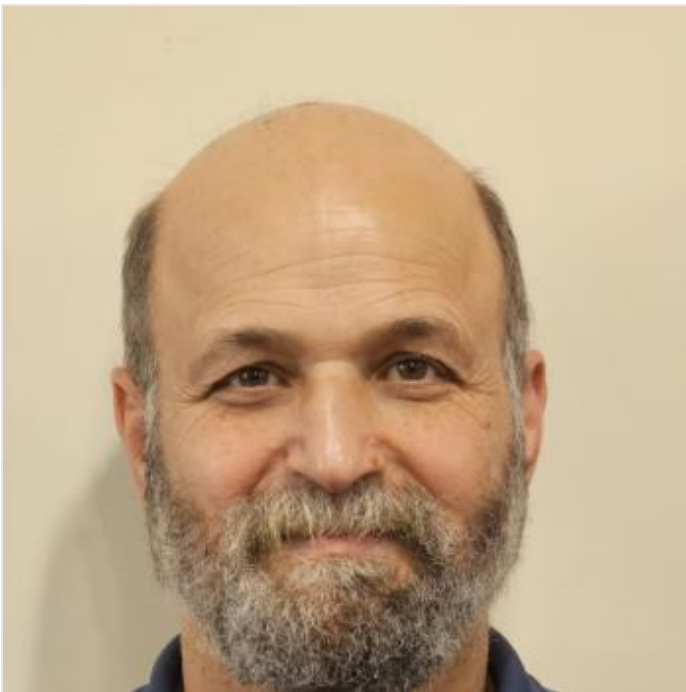Director, Bioinformatics and Computational Biology Master Science Program

mcummin1@umd.edu (mailto:mcummin1@umd.edu)

(/people/stephen-altschul)

Stephen Altschul (/people/stephen-altschul)

Lecturer

altschul@umd.edu (mailto:altschul@umd.edu)

(/people/babak-azimi-sadjadi)

(/people/volker-briken)

Volker Briken (/people/volker-briken)

Professor, Cell Biology and Molecular Genetics

vbriken@umd.edu (mailto:vbriken@umd.edu)

Babak Azimi-Sadjadi (/people/babak-azimi-sadjadi)

Lecturer

bazimi@umd.edu (mailto:bazimi@umd.edu)

(/people/kemal-davaslioglu)

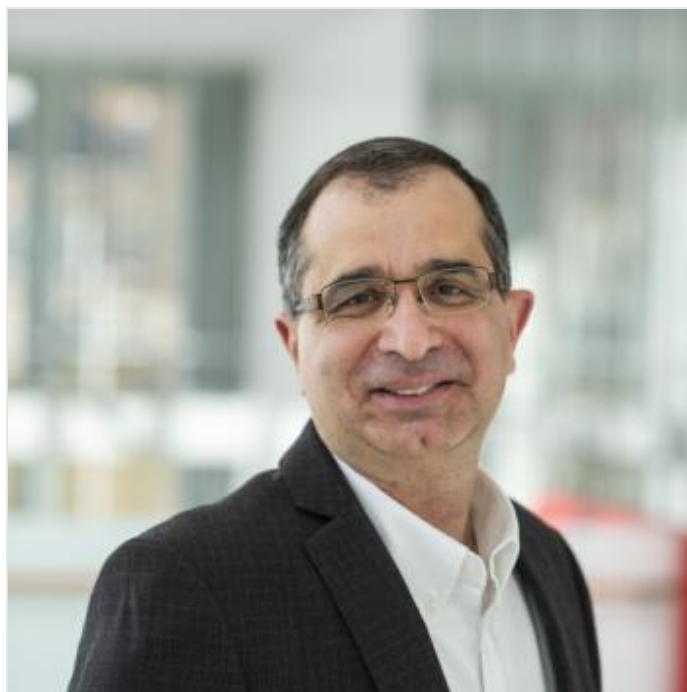Kemal Davaslioglu (/people/kemal-davaslioglu)

Lecturer

kdavasli@umd.edu (mailto:kdavasli@umd.edu)

(/people/najib-el-sayed)

Najib El-Sayed (/people/najib-el-sayed)

Professor, Cell Biology and Molecular Genetics & Center for Bioinformatics and Computational Biology.

elsayed@umd.edu (mailto:elsayed@umd.edu)

(/people/leonid-koralov)

Leonid Koralov (/people/leonid-koralov)

Professor, Mathematics

koralov@umd.edu (mailto:koralov@umd.edu)

(/people/alejandra-mercado)

Alejandra Mercado (/people/alejandra-mercado)

Associate Director, Master's in Telecommunications Program, Electrical and Computer Engineering

mercado@umd.edu (mailto:mercado@umd.edu)

(/people/rob-patro)

Rob Patro (/people/rob-patro)

(/people/tammy-perrin)
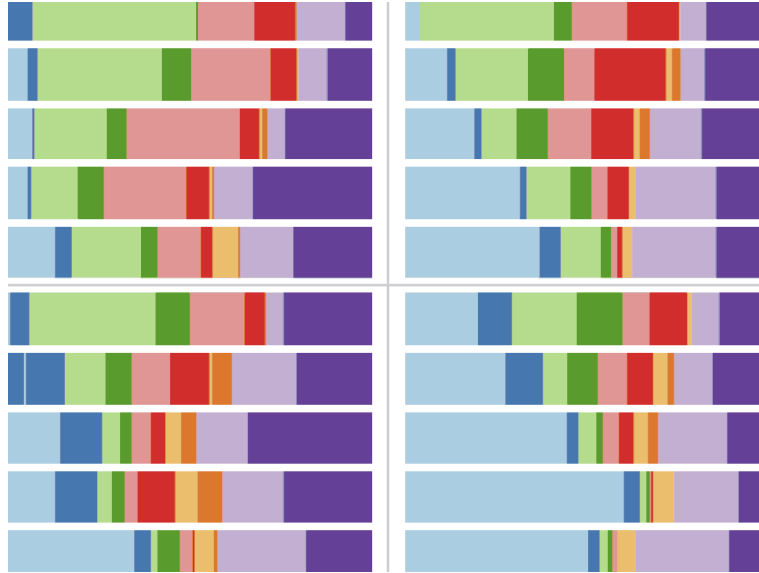
Tammy Perrin (/people/tammy-perrin)

Associate Professor, Computer Science

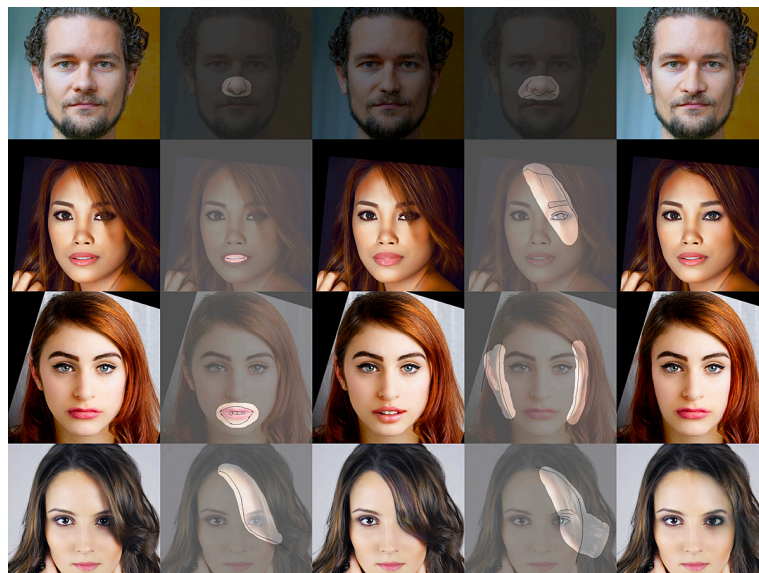rob@cs.umd.edu (mailto:rob@cs.umd.edu)

Lecturer

tperrin@umd.edu (mailto:tperrin@umd.edu)
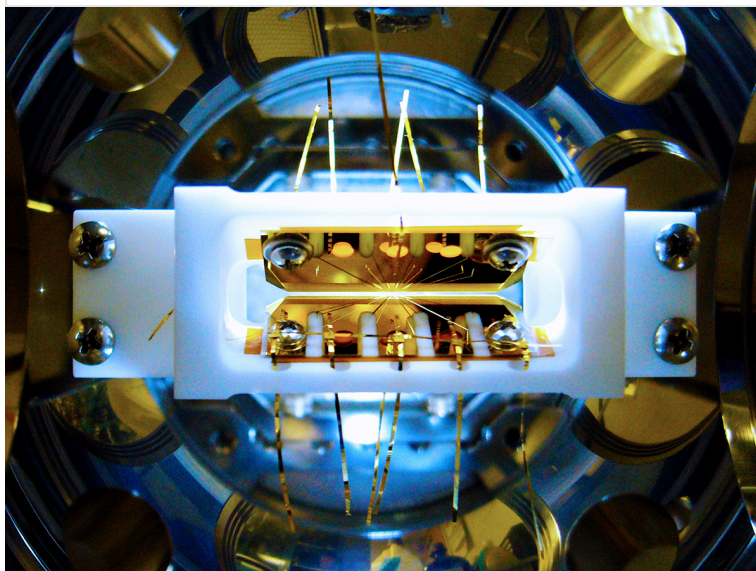
Explore Our Other Programs

(/graduate/science-academy/data-science)

Data Science (/graduate/science-academy/data-science)

(/graduate/science-academy/machine-learning)

Machine Learning (/graduate/science-academy/machine-learning)

(/graduate/science-academy/quantum-computing)

Quantum Computing (/graduate/science-academy/quantum-computing)

Degree Programs
(/graduate/degree-programs)

Admissions
(/graduate/admissions)

Graduate Fellowships
(/graduate/fellowships)

Student Organizations
(/graduate/student-organizations)

CMNS Teaching &
Learning Center
(/graduate/teaching-learning-center)

Graduation Information
(/graduate/graduation-information)

Science Academy
(/graduate/science-academy)   ▶

[(https://cmns.umd.edu)](https://cmns.umd.edu)

CONNECT WITH US

[(https://bsky.app/profile/umdscience.bsky.social)](https://bsky.app/profile/umdscience.bsky.social)   **f** [(https://www.facebook.com/umdcmns)](https://www.facebook.com/umdcmns)

[(https://www.instagram.com/umdscience/)](https://www.instagram.com/umdscience/)   [(https://www.linkedin.com/company/umdscience/)](https://www.linkedin.com/company/umdscience/)

[(https://www.reddit.com/user/umd-science/)](https://www.reddit.com/user/umd-science/)   [(https://www.threads.com/@umdscience)](https://www.threads.com/@umdscience)

[(https://x.com/umdscience)](https://x.com/umdscience)   [(https://www.youtube.com/@UMDscience)](https://www.youtube.com/@UMDscience)

QUICK LINKS

[Employment (https://umd.wd1.myworkdayjobs.com/UMCP)](https://umd.wd1.myworkdayjobs.com/UMCP)

[UMD Home (https://www.umd.edu)](https://www.umd.edu)

[Privacy Notice (https://umd.edu/privacy-notice)](https://umd.edu/privacy-notice)

[Web Accessibility (https://umd.edu/web-accessibility)](https://umd.edu/web-accessibility)

[Webmaster (mailto:cmnsweb@umd.edu)](mailto:cmnsweb@umd.edu)

VISIT US

Dean's Office: 3400 A.V. Williams Building

Undergraduate Student Services: 1300 Symons Hall

University of Maryland

College Park, MD 20742

[Contact Us (/contact-us)](/contact-us)