

# NATURAL SCIENCES

## Faculty in Natural Sciences

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Rebecca Black (<https://www.ncf.edu/directory/rebecca-e-black/>), Associate Professor of Organic Chemistry

Amy Elizabeth Bohan (<https://www.ncf.edu/directory/amy-bohan/>), Instructor of Biology

John Clark (<https://www.ncf.edu/directory/john-clark/>), Adjunct Assistant Professor of Biology

Amy Clore (<https://www.ncf.edu/directory/amy-clore/>), Professor of Biology

Donald Colladay (<https://www.ncf.edu/directory/donald-colladay/>), Professor of Physics

Melissa Crow (<https://www.ncf.edu/directory/melissa-a-crow/>), Instructor of Statistics

Erika Díaz Almeyda (<https://www.ncf.edu/directory/erika-diaz-almeyda/>), Assistant Professor of Biology and Environmental Studies (On Leave)

Kristopher Fennie (<https://www.ncf.edu/directory/kristopher-fennie/>), Associate Professor of Epidemiology

Jayne M. Gardiner (<https://www.ncf.edu/directory/jayne-gardiner-loewy/>), Associate Professor of Biology (On Leave)

Sandra Gilchrist (<https://www.ncf.edu/directory/sandra-l-gilchrist/>), Professor of Biology and Marine Science/Natural Sciences Division Chair

David Gillman (<https://www.ncf.edu/directory/david-w-gillman/>), Associate Professor of Computer Science

Fahmida Hamid (<https://www.ncf.edu/directory/fahmida-hamid/>), Assistant Professor of Computer Science

Emily Heffernan (<https://www.ncf.edu/directory/emily-v-heffernan/>), Associate Professor of Biology and Environmental Studies/Associate Provost

Lin Jiang (<https://www.ncf.edu/directory/lin-jiang/>), Associate Professor of Bioorganic Chemistry

Bernhard Klingenberg (<https://www.ncf.edu/directory/bernhard-klingenberg/>), Professor of Statistics/Interim Director of Data Science

Christopher Kottke (<https://www.ncf.edu/directory/christopher-kottke/>), Associate Professor of Mathematics

Elizabeth Leininger (<https://www.ncf.edu/directory/elizabeth-c-leininger/>), Associate Professor of Biology (On Leave)

Samantha Levell (<https://www.ncf.edu/directory/samantha-levell/>), Visiting Assistant Professor in Fish Biology

Patrick McDonald (<https://www.ncf.edu/directory/patrick-t-mcdonald/>), Professor of Mathematics/Vice Chair of the Faculty

Daniel Page (<https://www.ncf.edu/directory/daniel-page/>), Visiting Assistant Professor in Computer Science

Christopher Pedersen (<https://www.ncf.edu/directory/christopher-e-pedersen/>), Associate in Physics

Tiago Perez (<https://www.ncf.edu/directory/tiago-perez/>), Assistant Professor of Data Science

Eirini Poimenidou (<https://www.ncf.edu/directory/eirini-poimenidou/>), Professor of Mathematics (On Leave)

Tania Roy (<https://www.ncf.edu/directory/tania-roy/>), Associate Professor of Human Centered Computing

George Ruppeiner (<https://www.ncf.edu/directory/george-ruppeiner/>), Professor of Physics and Astronomy

Tyrone Ryba (<https://www.ncf.edu/directory/tyrone-ryba/>), Associate Professor of Bioinformatics

Athena Rycyk (<https://www.ncf.edu/directory/athena-rycyk/>), Associate Professor of Biology and Marine Science

Mariana Sendova (<https://www.ncf.edu/directory/mariana-sendova/>), Professor of Physics

Vlad Serban (<https://www.ncf.edu/directory/vlad-serban/>), Visiting Assistant Professor of Mathematics

Suzanne Sherman (<https://www.ncf.edu/directory/suzanne-sherman/>), Associate Professor of Chemistry (On Leave)

Steven Shipman (<https://www.ncf.edu/directory/steven-shipman/>), Professor of Physical Chemistry/Leonard Florsheim Chair (On Leave)

Andrey Skripnikov (<https://www.ncf.edu/directory/andrey-skripnikov/>), Assistant Professor of Applied Statistics

Jose Soto-Schoender (<https://www.ncf.edu/directory/jose-r-soto-shoender/>), Visiting Assistant Professor of Biology and Ecology

Joel Thurmond (<https://www.ncf.edu/directory/joel-e-thurmond/>), Senior Teaching Laboratory Specialist

Gerardo Toro-Farmer (<https://www.ncf.edu/directory/gerardo-toro-farmer/>), Associate Professor of Coastal and Marine Science

Katherine Walstrom (<https://www.ncf.edu/directory/katherine-walstrom/>), Professor of Biochemistry

Lydia Wassink, Adjunct Assistant Professor of Biology and Ecology

Necmettin Yildirim (<https://www.ncf.edu/directory/necmettin-yildirim/>), Professor of Mathematics/Soo Bong Chae Chair of Applied Mathematics

## Requirements for the Divisional AOC in Natural Sciences

The Natural Sciences faculty have agreed that a student who earns "Natural Sciences" as an Area of Concentration should have a diverse enough background to be reasonably called a natural scientist and, at the same time, should have attained some level of mastery in one of the following disciplines: Biology, Chemistry, Computer Science, Mathematics, or Physics. These goals are normally achieved by meeting the following requirements:

1. Satisfactory completion of at least six (6) introductory courses distributed among at least three Natural Sciences disciplines (chosen from Biology, Chemistry, Computer Science, Mathematics, or Physics). This usually involves the successful completion of the introductory sequence (two semester courses) in each of three disciplines.
2. A minimum of an additional two semester courses beyond the introductory sequence in one discipline. The faculty will entertain requests for exceptions to these specific requirements as long as work of sufficient breadth and depth has been done in the division.
3. At least one Independent Study Project in the Natural Sciences.
4. A senior thesis in some area of the natural sciences is sponsored by a faculty member of the Natural Sciences Division.

## Representative Senior Theses in Natural Sciences

- A Language Independent Text Editor
- Ribulose-1,5-Biphosphate Carboxylase/Oxygenase
- Hermit Crab Attraction to Gastropod Predation Sites
- Simulated Annealing from Random Graphs