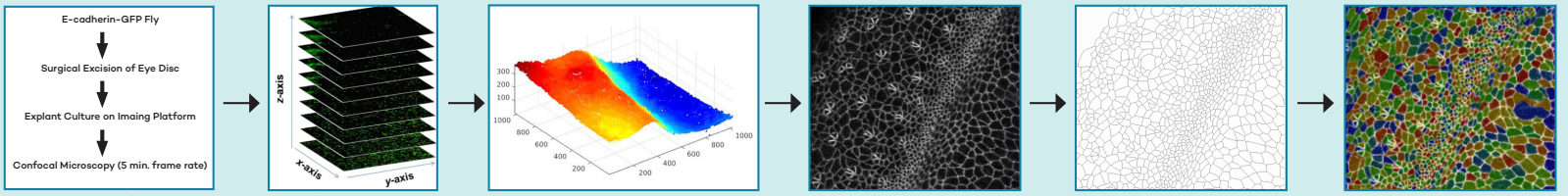
Example Quantitative Biology Project Workflow: Stochasticity & Eye Development



Prepartion and 3D Time Course Imaging of Eye | Machine-Learned Pixel Classification | Surface Detection | Surface Pull-down | Segmentation | Cell Tracking

QUANTITATIVE BIOLOGY
Undergraduate Summer Research Program

Supported by the NSF-Simons Center for Quantitative Biology and the Northwestern Research Training Grant in Quantitative Biological Modeling

APPLICATION DEADLINE: MARCH 1, 2019

This program allows undergraduate students majoring in biology, engineering, mathematics, statistics, and/or physics to participate in hands-on laboratory or computational research that applies mathematical concepts and methodology to understanding mechanisms in biology.

If selected, leadership will match you with one of 20 participating faculty mentors.

Beside full-time research, program activities include, faculty research presentations; a day trip to a local museum or Argonne National Laboratory; a presentation on applying to graduate school; and other cohort outings.

STIPEND: Participants in the program recieve a taxable stipend of approximately $4,000.

PROGRAM DURATION: 8-weeks beginning June 24 and ending August 16, 2019. Earlier start and end dates are available.

ELIGIBILITY: Applicants must be current freshmen, sophomores, or juniors with demonstrated interest in biology and/or mathematics.

APPLICATION: To apply students are required to email the following materials as an attachment to Tiffany Ozmina at tiffany.ozmina@northwestern.edu

- A completed application form
- A letter of recommendation from a faculty member
- Include a one-page, single-sided proposal describing the type of research in which you would most like to conduct if selected for this program. Information about available laboratories and research projects can be found on the website.

Find the application form at quantitativebiology.northwestern.edu

Undergraduate Summer Research Grant Deadline March 1, 2019 quantitativebiology.northwestern.edu
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