Feiyang Yi

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Education

Wuhan University Wuhan, Hubei, China   Sept. 2019 – June 2023(expected)
B.S. in Mathematics, School of Mathematics and Statistics & **Hongyi Honor Program** of
Hongyi Honor College
Averaged Grade: 90.2/100; GPA: 3.76/4.00; Rank: 3/32 in Honor Program, selected from 227.

University of California, Berkeley Berkeley, CA, USA   Jan. 2022 – Aug. 2022(expected)
Visiting Undergraduate Student
GPA: 3.90/4.00

Research & Competition Experience

International Genetically Engineered Machine Competition(iGEM)   Jan. 2021 ~ Oct. 2021
Golden Medal
Member of Team WHU-China, Mathematics Modeling Part.
- Built a Fluid Balance Analysis Model with optimization method to identify the enzyme which is the worthiest of overexpression in the process of Fatty Acid β-Oxidation
- Created a system of differential equations to describe the competition and killing relationship between engineering bacteria and pathogenic bacteria
More details of our work can be seen by clicking here.
Keywords: interdisciplinary methods; modeling for synthetic biology; flux balance analysis(FDA); growth simulator

Research Assistant to Prof. Giles Hooker   Mar. 2022 ~ Now
Department of Statistics, University of California, Berkeley
- Disentangled motor control processes from the physical forces on limbs of patients with anterior cruciate ligament injury
- Applied functional data analysis on the kinematics data of patients with anterior cruciate ligament injury
Keywords: functional data analysis; anterior cruciate ligament injury; motor control processes

Honors and Awards

Merit-Based Second Class Scholarship   Dec.2020& Dec.2021
Wuhan University
Second Class Hongyi Academic Scholarship   Oct. 2020
Hongyi Honor College, Wuhan University
Merit Student   Dec. 2020 & Dec. 2021
Wuhan University

Languages and Courses

Programing Languages: MATLAB, R, Python, Latex

Languages: Mandarin (native), English (professional)

Courses: *Wuhan University*
- *Graded A+*: Honor Mathematical Probability; C Programming; Optimization Theories and Methods; Numerical Analysis; Mathematical Modeling; Advanced Linear Algebra…
- *Other:* Real Analysis; Complex Analysis; Ordinary Differential Equation; Topology; Differential Geometry; Big Data Analysis and Processing …

University of California, Berkeley
- *2022 Spring semester:* Introduction to Partial Differential Equations; Introduction to Topology and Analysis (Graduate Level); Concepts of Statistics.