Bofan Xu (Paul)

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Education

University of California, Berkeley, Berkeley, CA June 2022
Bachelor of Science, Mechanical Engineering

- Minor in Computer Science
- Regents' and Chancellor's Scholarship recipient

Kent School, Kent, CT June 2018

- SAT 1570 (M800, CR770 W 7/7/7), TOEFL 117
- Relevant Coursework: Post-Calculus (multivariable calculus, linear algebra, differential equations), Aerodynamics, Quantum Mechanics, AP Physics C, AP Statistics, AP Computer Science A, AP Chemistry, AP BC Calculus

Research Publication

Electron Beam Monitoring via Single Photon Counting at SPEAR3

- Bofan Xu, Eduardo Carranza, Andy Chen, Shantha Condamoor, Jeff Corbett
- In *the 2017 International Beam Instrumentational Conference (IBIC 17)*

STEM Experience

Berkeley Artificial Intelligence Research – Berkeley, CA, ***Researcher Intern*** June 2018 – August 2018

- Research under Dr. Bo Li, a postdoctoral fellow at the EECS department
- Designing generative model for manipulator structure optimization
- Targeting paper submission to AAAI 2019 Conference as a co-first author

Kent Artificial Intelligence Laboratory – Kent, CT, ***President & Co-Founder*** April 2018 – Present

- Responsible for organizational structure design, recruiting, and daily activity management
- Led research on generative models for manipulator structure optimization
- Connected the laboratory with professional AI and robotics researchers for advice and assistance

SLAC National Accelerator Laboratory – Menlo Park, CA, ***Research Intern*** June 2017 – August 2017

- Designed an algorithm to improve synchrotron radiation imaging and electron bunch charge consistency; algorithm adopted by SPEAR3
- Implemented the algorithm into accelerator control system, Experimental Physics and Industrial Control System (EPICS), to control the SPEAR3 storage ring electron injection
- Represented SLAC at the 2017 International Beam Instrumentational Conference

Harvard Endocrinology Laboratory – Boston, MA, ***Research Intern*** June 2016 – August 2016

- Analyzed DNA data using R and Excel to help with professor's research
- Performed cell culture and measured enzyme's effect on DNA molecules via gel electrophoresis

Leadership Experience

Kent Investment Club – Kent, CT ***Founder & Co-President*** September 2016 – June 2018

- Managed $5M shadow endowment account and produced strategy reports to school endowment committee
- Market research on China, Africa; familiar with equity, fixed income, commodity & currency investments.

Administration Report – Kent, CT ***Founder, Columnist & Editor-in-Chief*** July 2016 – June 2018

- Established newspaper promoting student governance and legislative transparency

Other Achievements

Perfect Score in AP Macroeconomics (1 of only 60 worldwide, Top 0.04%) • Coursera "Machine Learning" completion • Varsity Football • Varsity Swimming • Lead Bass for Kent School selective choirs • Musical actor

Skills

- Technology: MATLAB, Java, Python, R, Excel
- Language: Mandarin Chinese (native), English