Khoa Ho

(641) 260-6823 | 1115 8th Ave, Grinnell, IA 50112 | hokhoa@grinnell.edu

EDUCATION

Grinnell College (GC)

Grinnell, IA

B.A., Double Major in Physics and Mathematics, Minor in Neuroscience

Expected May 2018

- **GPA:** 3.72 / 4.00
- Honors: Dean's List (3 out of 5 semesters), Major Honor Track
- Selected Coursework: Modern Physics, Upper-division Classical Mechanics (with weekly Python projects) and Electromagnetic Theory, Computational Physics, Differential Equations, Differential Geometry, Abstract Algebra, Real Analysis, Numerical Analysis (with weekly MATLAB projects)

RESEARCH EXPERIENCE

GC Solid State Physics Lab

Grinnell, IA

Research Assistant

May 2016 - August 2016

- · Worked in a team to synthesize new rare-earth intermetallic single-crystals using the flux method
- Characterized these novel materials physically with X-ray diffraction, magnetically and electrically with PPMS
- Wrote a Python program to analyze and visualize magnetic susceptibility and electrical resistivity data
- Presented poster at the Undergrad. Research Symposium of the Midstates Consortium for Math and Science

RF & Microwave Lab - National Metrology Center

Singapore

Research Intern

October 2012 – November 2012

- · Studied high-precision measurements and the construction and maintenance of standards
- Programmed in LabVIEW to automate data collection and processing from in-lab atmospheric sensors

Nanomaterials Research Lab - National University of Singapore

Singapore

Research Intern

November 2011 – February 2012

- · Investigated how laser pruning and the addition of quantum dots affects CdSSe nano-rods and nano-belts
- Examined optical and morphological changes using PL and Raman spectroscopy, as well as optical, fluorescence, and scanning electron microscopy

WORK & LEADERSHIP EXPERIENCE

GC Campus Curriculum Committee

Grinnell, IA

Student Representative of the Science Division

August 2016 - Present

- Provided recommendations for and oversight of the educational program and vision of the college
- Led an initiative on expanding interdisciplinary coursework and research among students and faculties

GC Physics Department

Grinnell, IA

Teaching/Lab Assistant

February 2015 – Present

- · Mentored General Physics students, graded their work, and discussed teaching strategies with professors
- · Assisted more than 100 hours of lab by setting up equipment, explaining procedures, and troubleshooting

GC Student Government Association (SGA)

Grinnell, I

Residence Hall Cluster Senator

September 2015 – December 2016

- · Served and represented 4 residence halls, housing over 200 students, at the Campus Council
- Wrote, debated, and enacted SGA's legislation and helped allocate a 6-figure annual budget for events

SKILLS

Language: English (fluent), Vietnamese (native), French (conversational)

Programming: Python, MATLAB, C, Mathematica, LabVIEW

ACTIVITIES

- · Led a 1-week canoeing trip for 12 students in Buffalo River, Arkansas
- · Facilitated a 1-week hiking and mountaineering expedition for 20 students in Indian Himalayas
- · Taught underprivileged middle schoolers English and built a local library in Nanchang, China
- Active member the Effective Altruist Group in Grinnell
- · Intramural table tennis, Aikido, and long-distance running