

Khoa Ho

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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

WORK & LEADERSHIP EXPERIENCE

College Kickstart

Grinnell, IA

Full Stack Development Intern

May – August 2017

- Implemented new features on admission statistics reporting, using LAMP stack, to improve high school counselors' workflow
- Extended the database and website UI to support custom GPA types and admission statistics for each client

GC Campus Curriculum Committee

Grinnell, IA

Student Representative of the Science Division

August 2016 – Present

- Provided recommendations for and oversight of the curricular 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, IA

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

RESEARCH EXPERIENCES

GC Solid State Physics Lab

Grinnell, IA

Research Assistant

May – August 2016

- Worked in a team to synthesize new rare-earth intermetallic single-crystals using the flux method
- Wrote a Python program to analyze and visualize magnetic susceptibility and electrical resistivity data

RF & Microwave Lab - National Metrology Center

Singapore

Research Intern

October – 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 affect CdSSe nano-rods and nano-belts
- Examined optical and morphological changes using PL and Raman spectroscopy

PROJECTS

Deep Learning (using TensorFlow, Numpy)

April – September 2017

- Classifying household object images in the CIFAR-10 dataset using Convolutional Neural Network
- Applying Sequence-to-Sequence model to translate English to French
- Generating Simpson TV script with Long Short Term Memory (LSTM) networks
- Generating hand-written digits and celebrity faces using Deep Convolutional Generative Adversarial Network

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 helped build a local library in Nanchang, China