Huan Q. Bui

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Education

B.A. (anticipated) Colby College, 2017—2021, GPA: 4.12/4.00

Physics & Mathematical Sciences with a Concentration in Statistics

Courses

2017-2018 Classical Mechanics; Modern Physics; Linear Algebra; Honors Calculus; Intro to Python 2018-2019 General Relativity; Probability Theory; Ordinary Differential Equations; Vector Calcu-

> lus; Introduction to Statistics; Matrix Analysis; Partial Differential Equations; Thermodynamics & Statistical Mechanics; Applied Longitudinal Analysis; Statistical Modeling

Work Experience

Research Assistant Project Investigator: Professor Charles Conover

Topic: High-precision measurements of millimeter-wave transitions between Colby College, Physics Nov 2017—Present

Rydberg states in potassium (to 1 in 10⁷). Measurements are used to determine quantum defects and absolute energy of the Rydberg states. Summer 2018: Studied how to use Ramsey separated oscillatory fields method to make precision measurements with our current apparatus. Work

presented at CUSRR 2018.

Teaching Assistant Grade weekly problem sets for: PH141: Foundations in Mechanics Colby College, Physics (F'17); PH145: Foundations in Electromagnetism & Optics (S'18); PH241:

Modern Physics I (F'18). Prepared laboratory equipment for PH145 (S'18).

Nov 2017—Present Math & Physics Tutor Meet 4 students individually from Introduction to Mechanics and

Colby College First-year Calculus on a weekly basis, help improve their academic Nov 2018—Present performance through reviewing course content and solving problems.

Installed software; Supported students, staff, and faculty with trou-Computer Consultant Colby College, ITS bleshooting classroom equipment, hard/software, and networking problems.

Aug 2017-Oct 2018 Promoted from Support Center Technician.

Tutor, 7AStar Tutoring Prepared Vietnamese high school students for standardized tests (e.g. AP

Summer 2017 exams and SAT subject tests).

Honors & Awards

Bixler Scholar Colby College, June 2018: Top-ranked students as determined by the cumulative

academic record at the end of the preceding year.

Dean's List Colby College, Fall 2017, Spring 2018

Skills

Laboratory Optics, atomic spectroscopy (collecting and analyzing data), constructing electronic cir-

cuits, operating diode lasers & magneto-optical traps, programming arbitrary waveform

generators for remote MOT current control & other purposes.

Computing IGOR Pro (programming, analysis & modeling), R, Python, Mathematica, IATFX, Adobe

Illustrator, Ubuntu, Windows, MacOS, C++ (novice), Java (novice), HTML (novice)

Tutoring Online & One-on-one tutoring

Languages Vietnamese (native), English (fluent/proficient)

Extracurriculars

Colby Ultimate Frisbee (Dazzlin' Asses)