Huan Q. Bui

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Education

M.A., Colby College, 2021
Majors: Physics, Mathematics
Minor: Statistics
GPA: 4.15/4.00

Relevant Coursework: (*) denotes "Independent Study"
Physics: Quantum Information, Quantum Mechanics, Massive Gravity*, Classical Field Theory*, General Relativity, Classical Mechanics, E&M, Thermo & StatMech

Mathematics: Algebraic Geometry, Abstract Algebra, Real Analysis, Complex Analysis, Ordinary Differential Equations, Partial Differential Equations, Matrix Analysis, Linear Algebra, Probability Theory, Vector Calculus, Honors Calculus

Statistics: Statistical Inference, Longitudinal Data Analysis, Statistical Modeling

Research

Research Assistant, Joint Quantum Institute, College Park
PI: Steven Rolston
Project:

Research Assistant, Colby Dept. of Physics & Astronomy
PI: Charles Conover
Project:

Teaching Assistantship

Teaching Assistant, Colby Dept. of Physics & Astronomy
Instructor, Topic

Teaching Assistant, Colby Dept. of Mathematics & Statistics
Instructor, Topic

Tutor, Colby Deans of Studies
Instructor, Topic

Awards Honors

Linda K. Cotter Internship Fund, *Jan 2020*
for Jan 2020 internship at JQI

Phi Beta Kappa Scholastic Achievement Award, *Sep 2019*
The Phi Beta Kappa Scholastic Achievement Award was established by the Beta Chapter of Colby College in 1992 to recognize students from the sophomore and junior classes for exceptional scholastic performance.

Julius Seelye Bixler Scholar, *Sep 2018, Sep 2019*
Bixler Scholars are the top-ranking students as determined by the cumulative academic record at the end of the preceding year.

Meritorious Winner, COMAP Mathematical Contest in Modeling, *S'19*
Top 8% out of more than 10,000 teams

Dean's List, *F'17, S'18, F'18, S'19, F'19*

Conferences Presentations

DAMOP19, *May 2019*
Millimeter-wave precision spectroscopy of d-d transitions in ^{39}K Rydberg states

CLAS 2019, *May 2019*
Matrices in Quantum Computing: A 2-qubit entanglement circuit

CUSRR2018, *Jul 2018*
Precision measurement of potassium energy levels at highly excited states

Projects

Personal Website/Archive, huanqbui.com
Notes from class and independent readings plus other projects.

Experimental Physics, Advisor: Charles Conover
Lifetime measurements of ultracold potassium 4p

Theoretical Physics, Advisor: Robert Bluhm
Theoretical aspects of Massive Gravity

Applied Mathematics, Advisor: Evan Randles
Convolution powers of complex functions & harmonic analysis

Skills

Physics research: optical nanofiber, atomic physics, quantum optics, atomic spectroscopy, precision measurement, constructing external-cavity diode lasers, constructing frequency-stabilizing electronics for external-cavity diode lasers, data acquisition & analysis

Mathematics research: applied mathematics, convolution powers

Technical: IGOR Pro, R, Python, NI-MAX, Mathematica, LaTeX, HTML & CSS, MS Office, Adobe Illustrator, Adobe Lightroom, Photography

Languages

English (fluent), Vietnamese (native),

Activities Outreach

Colby Society of Physics Students, Colby Photography Club, Colby Ultimate Frisbee

References

Professor One
Department Name
University Name
prof1@email.com,+1 (123) 456-7899

Professor Two
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prof2@email.com,+1 (987) 654-3210

Professor Three
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