

Bradly Button, PhD

LinkedIn://Bradly Button
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EDUCATION

UNIVERSITY OF IOWA

PHD IN PHYSICS (THEORETICAL)

Aug 2014 | Iowa City, IA

MS-ABT IN MATHEMATICS

Jan 2006-Aug 2008 | Carbondale, IL

Conc. in Differential Geometry

MS IN PHYSICS (EXPERIMENTAL)

Aug 2003-Dec 2005 | Carbondale, IL

Conc. in Nanoscience

BS IN PHYSICS

Dec 2002 | Champagne-Urbana, IL

LINKS

LinkedIn:// Bradly-Button

ResearchGate:// Bradly-Button

SKILLS

PROGRAMMING

- Mathematica • Matlab • \LaTeX
- C++ • Python (NumPy, Pandas)

FINITE ELEMENT

- OnScale • CIV4

COURSEWORK

GRADUATE

General Relativity
 Quantum Field Theory
 Particle Physics
 Statistical Mechanics
 Real Analysis
 Partial Differential Eqs.
 Abstract Algebra
 Linear Prob. & Stat Sys
 Fourier Analysis
 Solid State Physics
 Probability Theory
 Multi-variate Statistics

PROFESSIONAL EXPERIENCE

TEXAS RESEARCH INTERNATIONAL (TRI) AUSTIN RESEARCH

SCIENTIST II & PROJECT MANAGER

Oct. 2019 - Sep. 2020 | Austin, TX

- R & D in acoustic non destructive testing of composite materials.
- Utilized method of finite elements in acoustic numerical simulations.

UNIVERSITY OF HOUSTON-VICTORIA | ASST. PROF. OF PHYSICS

Sep. 2014 - Aug. 2018 | Victoria, TX

- Taught Introductory Physics and Mathematics Courses.
- Designed and established introductory physics lab courses from ground up.

UNIVERSITY OF IOWA | GRADUATE TEACHING ASST.

Jan 2009 - May 2014 | Iowa City, IA

- Taught undergraduate introductory physics lab sequence courses.

SOUTHERN ILLINOIS UNIV. AT CARBONDALE | GRADUATE TEACHING & RESEARCH ASST.

Dec 2007 - Aug 2008 | Carbondale, IL

RESEARCH

UNIVERSITY OF HOUSTON-VICTORIA

Jan 2015 - Aug-2018 | Victoria, TX

Began research program in mathematical physics and string theory. Worked towards the definition of a novel string theory vacua using functional analytic and distribution theoretic methods. One work submitted.

UNIVERSITY OF IOWA || DIFFEOMORPHISMS AND GEOMETRY GROUP MEMBER

Mar 2010 Aug 2014 | Iowa City, IA

Research conducted with Prof. Vincent Rodgers in string theory (high energy particle theory). Focused on holographic representations of quark/anti-quark pairs (k-strings) D-brane configurations. Three works published.

AWARDS & HONORARIA

- 2014 Summer Research Assistant Grant
- 2013 (DOE) Argonne National Lab Conference Presentation Honoraria
- 2013 COE College Dept. of Physics - Invited Speaker Honoraria
- 2012 (DOE) Argonne National Lab Conference Presentation Honoraria
- 2012 John and Stacy Wahl Scholarship Award
- 2010 ORLLC Teaching Award and Commendation
- 2009 John and Stacy Wahl Scholarship Award