

Adam C. Keith

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PROFILE

Quick learning physicist more interested in technical human problems than fundamental physical laws. Experienced with a variety of statistical methods, optimization techniques and software tools.

EDUCATION

UNIVERSITY OF COLORADO | MS IN PHYSICS, PHD CANDIDATE (LEFT PROGRAM)

Aug 2016 | Boulder, CO • GPA: 3.49/4.0

NORTH CAROLINA STATE UNIVERSITY | BS IN PHYSICS • BS IN APPLIED MATHEMATICS • MINOR IN CS

May 2012 | Raleigh, NC • Dean's List (All Semesters) • Summa Cum Laude • GPA: 4.0/4.0

EXPERIENCE

INVESTIGATIVE ENGINEERING CONSULTANTS AND ASSOCIATES | FORENSIC ENGINEERING ASSISTANT

Nov 2016 - | Raleigh, NC

Assistant for the senior forensic engineer. Handle and catalog physical and digital forensic evidence. Manage laboratory tools and equipment. Edit technical reports.

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY | GUEST RESEARCHER

May 2013 – Aug 2016 | Boulder, CO | Advisors: Dr. Emanuel Knill, Dr. David Wineland

Publications: www.arxiv.org/abs/1603.03848, www.arxiv.org/abs/1604.00032

Graduate student in the Computing and Communications theory group. Contributed to a variety of quantum information projects which required proper analytical protocol for rigorous hypothesis testing. Thesis work focused on developing and implementing a protocol for performing state and measurement tomography using maximum likelihood estimators for the ion trap quantum computer experiments at NIST.

UNIVERSITY OF COLORADO | GRADUATE TEACHING ASSISTANT

Aug 2012 – May 2013 | Boulder, CO

Taught recitations for calculus based freshman mechanics and electromagnetism courses. Required to use the Socratic Method.

GEORGETOWN UNIVERSITY | RESEARCHER

May 2011 – Aug 2012 | Washington D.C. | Advisors: Dr. Jim Freericks, Dr. John Bollinger

Publications: www.arxiv.org/abs/1204.5789, www.arxiv.org/abs/1201.4415, www.arxiv.org/abs/1211.2842

Studied the phonon modes of a cold 2D ionic crystal in a Penning trap for quantum simulation using perturbative methods and molecular dynamics simulations.

NORTH CAROLINA STATE UNIVERSITY | RESEARCHER

Jan 2009 – May 2011 | Raleigh, NC | Advisors: Dr. Davide Lazzati, Dr. Karen Daniels

Publications: www.arxiv.org/abs/1006.5726

Coded a Monte Carlo simulation to calculate nucleation rates of carbonaceous grains for relevant astrophysical conditions. After my advisor left the university I worked in a lab investigating how local properties affect segregation in an experimental two dimensional granular material.

NOTABLE ACHIEVEMENTS

NATIONAL SCIENCE FOUNDATION GRADUATE RESEARCH FELLOW Sep 2013 - Aug 2016

PASSED SOCIETY OF ACTUARIES EXAM P July 2016

APS LEROY APKER UNDERGRADUATE RESEARCH FINALIST Aug 2012

PROGRAMMING LANGUAGES AND TOOLS

Proficient:

Python • Matlab • C++ • \LaTeX • Subversion

Familiar:

R • C • Java • MS Excel • LabView • Unix • Assembly • Git