Joe, Becker

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Education

2005–2012 **Bachelor of Arts**, *University of Colorado at Boulder*, USA.
- Physics, over all GPA: 3.0/4.0.

2005–2012 **Bachelor of Arts**, *University of Colorado at Boulder*, USA.
- Mathematics, over all GPA: 3.1/4.0.

2001–2005 **International Baccalaureate High School Diploma**, *Poudre High School*, USA.

Academic Background

Physics — Advanced Physics/Optics Lab, Junior Level Electronics Lab, Quantum Mechanics, Electricity and Magnetism, Classical Mechanics, Thermodynamics, Error Analysis, Solid State Physics, General Relativity

Mathematics — Calculus, Mathematical Analysis, ODE & PDE, Complex Analysis, Fourier Analysis, Linear Algebra, Probability Theory, Mathematical Statistics

Computer Science — Data Structures, Algorithms

Experience

2006–2008 **Research Assistant**, *University of Colorado at Boulder: High Energy Physics BaBar Group*, Professors James G. Smith & William T. Ford.
- Preformed data analysis for the BaBar collaboration.
- Measured quasi-twobody decays $B^0 \to a_0(1450)^- \pi^+$, $B^0 \to a_0(1450)^- K^+$, and $B^0 \to \eta\rho^0$

2011 **Summer Internship**, *Tech-X Corporation*, Peter Stoltz Ph.D.
- Conducted a verification study on Nautilus, the fluid plasma modeling software.
- Data analysis using python specifically in the NumPy, SciPy, MatPlotLib enviroment.

2012–Present **Research Assistant**, *Liquid Crystal Materials Research Center*, Professors Noel Clark, Matthew Glaser, & Joseph Maclennan.
- Designed and conducted scientific measurements on free-suspended liquid crystal films.
- Data analysis on expiremental data using Python, Mathematica, MatLab, & Origin 9

Publications

2007 **The BABAR Collaboration, B. Aubert, et al**, *"Search for Neutral B-Meson Decays to a0pi, a0K, etarho0, and etaf0"*, Phys. Rev D **75**, 111102 (2007).

Computer skills

OS — Linux/Unix, Windows, DOS

Programming — C/C++, Python, Perl

Scientific — Matlab, Maple, Mathematica, Matplotlib, LabView, Origin 9

Typography — LaTeX, Microsoft Office

Miscellaneous — Precision Machining