

Joe Becker

1846 19th Street
Boulder, CO 80302

☎ (970)402-3968

✉ jbecker@colorado.edu

Education

- 2005–2012 **Bachelor of Arts**, *University of Colorado*, Boulder, CO USA.
- Physics, over all GPA: 3.0/4.0.
- 2005–2012 **Bachelor of Arts**, *University of Colorado*, Boulder, CO 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.
- Performed data analysis for the BaBar collaboration.
- Measured quasi-two-body decays $B^0 \rightarrow a_0(1450)^- \pi^+$, $B^0 \rightarrow a_0(1450)^- K^+$, and $B^0 \rightarrow \eta \rho^0$
- 2008–2012 **Weekend Cook / Head Dishwasher**, *Gamma Phi Beta Sorority*, Chef Bill Grodeska.
- Basic food prep and Dish washing
- Weekend Brunch Cook
- Managed up to seven dish washers under me
- 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 environment.
- 2012–2013 **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 experimental data using Python, Mathematica, MatLab, & Origin 9

Other skills

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| OS | Linux/Unix, Windows, DOS | Programming | C/C++, Python, Perl |
| Scientific | Matlab, Maple, Mathematica, Matplotlib, LabView, Origin 9 | Typography | L ^A T _E X, Microsoft Office |
| Miscellaneous | Precision Machining | | |