

MICHAEL HEDGES

HIGH-ENERGY PHYSICIST

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github.com/mhedges

Education

University of Hawai'i at Mānoa
Ph.D. Physics

Expected 2018

M.S. Physics

2014

Boston University
B.A. Physics

~2011

Skills

Advanced Statistical Analysis

Rigorously evaluate quantitative trends in complex multivariable data using traditional and modern methods in standard and custom analysis frameworks.

Presentation and Communication

Clearly and concisely present sophisticated analyses, proposals, and conclusions in spoken and written media.

Project Management

Proven ability to collaboratively lead and manage diverse and multicultural team of scientists in operating and constructing a particle physics experiment with results published in peer-reviewed journals.

Technical

Python/Scipy

Machine Learning

OS X

C/ROOT (root.cern.ch)

Git

Linux

Research & Experience

BEAST II Collaboration

SuperKEKB Fast Neutron Background Analyst

Provide world's first 3D analysis of neutron production from state-of-the-art particle accelerator.

On-sight Operations Coordinator

Coordinate and oversee on-the-ground operations and safe construction of BEAST II beam background detector system at KEK in Tsukuba, Japan.

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Gas Delivery System Design & Construction

Design, test, and instrument a parallel path gas delivery system for multi-channel, gas-based detector apparatus.

Publications

For publications (and more), please see my CV at mhedges.github.io/markdown-cv.