

Kirby Hermansen
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EDUCATION

Michigan State University Ph.D in Physics; Grad. Cert. in High-Performance Computing Tentative Thesis: Total Absorption Spectroscopy of A=57 Neutron-rich Nuclei	East Lansing, MI Exp. Summer 2022
University of Notre Dame B.S. in Physics, Economics	Notre Dame, IN May 2015

RESEARCH EXPERIENCE

National Superconducting Cyclotron Laboratory (NSCL/FRIB) 2017– <i>Research Assistant</i> <ul style="list-style-type: none">Analyze experimental data to constrain beta-decay transitions in select neutron-rich nucleiFirst author on a sensitivity study of nuclear reaction rates in core-collapse supernovaeContributed to 7 NSF-funded experiments and ongoing detector systems commissioningLead guided public tours of the cyclotron facility 2019– <i>Contributing Member, Nuclear Policy Working Group</i> <ul style="list-style-type: none">Follow and discuss ongoing developments in U.S. nuclear policy and treatiesResearch the technical details of nuclear weapons and reactorsEvaluate the importance of nuclear energy in environmental policy 2017–2018 <i>Teaching Assistant</i> <ul style="list-style-type: none">Taught 2 semesters of undergraduate physics laboratory	East Lansing, MI PI: Hendrik Schatz
European Organization for Nuclear Research (CERN) 2014 <i>Research Assistant</i> <ul style="list-style-type: none">Analyzed lifetime ratios and kinematic variables to better determine B-meson lifetimesDeveloped elements of the ROOT/R interface library, later distributed in ROOT	Geneva, Switzerland
Nuclear Science Laboratory (NSL) 2013–2015 <i>Research Assistant</i> <ul style="list-style-type: none">Created a process for radiocarbon dating using accelerator mass spectrometry	Notre Dame, IN

PROFESSIONAL EXPERIENCE

Travelers Insurance Fixed Income Investments 2015–2017 <i>Senior Associate Quantitative Analyst</i> <ul style="list-style-type: none">Assessed return attribution on a \$30 billion municipal bond portfolioModeled asset/liability matching to minimize portfolio systematic and curve risk	Saint Paul, MN
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SKILLS

Computer:	Excel, Word, PowerPoint, SharePoint, LaTeX, Linux, Access
Programming:	<i>Proficient:</i> ROOT, Python, C++, VBA; <i>Familiar:</i> Node.js, JavaScript, SQL, R
Language:	<i>Basic:</i> French, Spanish