

JONAH BEREAN-DUTCHER

CURRENT POSITION

- PhD student • University of British Columbia • since 2022
Advisor: Julio Parra-Martinez
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AREA OF SPECIALIZATION

- Scattering amplitudes and generalized symmetries
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EDUCATION

- University of British Columbia • PhD in Physics • 2022–present
 - University of British Columbia • MSc in Physics • 2019–2022
 - University of British Columbia • BSc in Honours Physics • 2013–2019
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PUBLICATIONS

- [Soft Theorems from Higher Symmetries](#) (with M. Derda & J. Parra-Martinez) • Preprint • 2025
 - [Characterization of electroless nickel-phosphorus plating for ultracold-neutron storage](#) (with H. Akatsuka, T. Andalib et al.) • *Nucl.Instrum.Meth.A* • 2023
 - [Single neutron transfer on \$^{23}\text{Ne}\$ and its relevance for the pathway of nucleosynthesis in astrophysical X-ray bursts](#) (with G. Lotay, J. Henderson et al.) • *Phys.Lett.B* • 2022
 - [TRIFIC: The TRIUMF Fast Ion Counter](#) (with A. Chester, J. Smallcombe et al.) • *Nucl.Instrum.Meth.A* • 2019
 - [E0 transition strengths in \$^{110}\text{Pd}\$](#) (with J. Smallcombe, M. Moukaddam et al.) • *Eur.Phys.J.A* • 2018
 - [In-beam internal conversion electron spectroscopy with the SPICE detector](#) (with M. Moukaddam, J. Smallcombe et al.) • *Nucl.Instrum.Meth.A* • 2018
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INVITED SEMINARS

- Caltech • Seminar • Feb. 11, 2026
 - UCLA • Amplitudes Seminar • Feb. 10, 2026
 - SLAC National Accelerator Laboratory • Theory Group Seminar • Feb. 6, 2026
 - UC Davis • Amplitudes Seminar • Feb. 2, 2026
 - Durham University • Amplitudes and Correlators Journal Club (virtual) • Nov. 5, 2025
 - University of Victoria • High Energy Seminar • Sep. 16, 2025
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CONFERENCE TALKS

- Symmetries in QFT and Particle Physics 2025 • Daejeon, South Korea • Jul. 11, 2025
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SCHOOLS ATTENDED

- School on Modern Amplitude Methods for Gauge and Gravity Theories • São Paulo, Brazil • August 2023
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FELLOWSHIPS & AWARDS

- UBC Four-Year PhD Fellowship • 2022–2026
 - UBC President's Academic Excellence Award • 2022–2025
 - NSERC Undergraduate Student Research Award (USRA) • 2019
 - Arthur Crooker Prize in Experimental Physics • 2019
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TEACHING

- Course coordinator • First-year laboratory physics • Summer 2022
- Instructor TA • First-year laboratory physics • Fall 2022
- Foundations of Pedagogy • UBC Centre for Teaching, Learning and Technology • 2021
- Graduate Academic Assistant • Course development for fourth-year experimental physics • Summer 2020

SERVICE & OUTREACH

- Equity and Inclusion Committee in Physics and Astronomy • Executive team • 2025–present, 2022–2023
- Pathways for Education • Volunteer tutor and mentor for grades 8–12 in Vancouver’s Downtown Eastside • 2018–2021