



Curriculum Vitæ

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Education

- 2008-2013 *University of Maryland, College Park.*
Ph.D. in Physics. Defended 8 April 2013.
- 2004-2008 *Massachusetts Institute of Technology.*
SB in Physics, GPA of 4.8/5.0.
- 1998-2004 *Hunter College High School, New York City, New York.*
Graduated with honors in mathematics and physics.

Current Position

Postdoctoral Researcher, Institut für Kernphysik & Institute for Advanced Simulation,
Forschungszentrum Jülich

- ◇ Working on few-nucleon systems, neutrinoless double beta decay, hadronic parity violation, nucleon structure, nuclear effective field theory, gauge/gravity duality, and other topics in lattice gauge theory and computational physics.

Positions Held

- 2013-2016 *Postdoctoral Researcher* — Lattice Group, Nuclear and Chemical Sciences Division, Physical and Life Sciences Directorate, Lawrence Livermore National Laboratory, Livermore CA.
- ◇ Developed new techniques for studying few-nucleon systems via lattice QCD, including parity-odd scattering channels.
 - ◇ Pioneered the application of lattice QCD to axion cosmology.
 - ◇ Executed precision tests of gauge/gravity duality.
- 2008-2013 *Graduate Research Assistant* — Theoretical Quarks, Hadrons, and Nuclei, Maryland Center for Fundamental Physics.
- ◇ Studied topological solitons in color-flavor-locked high-density quark matter.
 - ◇ Characterized a phase of condensed nuclei with applications for helium white dwarfs.
 - ◇ Pointed out certain constraining aspects of finite-volume simulations.
- 2007 *Undergraduate Researcher* — Waves and Beams, MIT Plasma Science and Fusion Center.
- ◇ Modeled and simulated an image-free cavity for a 20:1 elliptical beam to determine eigenfrequencies.
 - ◇ Developed and experimented with a photonic band gap cavity solid model.

- ◇ Modeled and simulated TESLA accelerator cavities to find field features and dispersion relations of TM modes, including beam-breakup modes.
- 2006 *Undergraduate Researcher* — Applied Mathematics Fluids Laboratory, MIT.
 - ◇ Quantified the nibbling frequency in the tears of wine phenomenon for a variety of geometrical arrangements and chemical compositions.
 - ◇ Designed and built an experiment to investigate natural frequencies in two-dimensional fluids.
 - ◇ Developed software for video analysis of fluid motion experiments.

Grants, Honors & Awards

- 2018 *Gordon Bell Award Finalist* for *Simulating the weak death of the neutron in a femtoscale universe with near-Exascale computing*.
- 2018 *2.1M core-hours* as PI for Hypernuclei and the Three-Neutron System from Lattice QCD, Jülich Supercomputing Center
- 2018 *65M hours* as co-PI for A Variational Determination of Two-Nucleon Elastic Scattering at $m_\pi \sim 220$ MeV from Lattice QCD, NERSC 2018 ERCAP Allocation
- 2017 *11.3M core-hours* as PI for Hypernuclei and the Three-Neutron System from Lattice QCD, Jülich Supercomputing Center
- 2017 *3M core-hours* as co-PI for Scaling Lattice QCD Calculations for Leadership Computing Facilities, OLCF Director's Discretionary Time
- 2017 *6.5M Hours* as co-PI for Implementing Improved Operators for Lattice QCD Calculations of Two-Nucleon Elastic Scattering, NERSC 2017 ERCAP Allocation
- 2016 *Honorable Mention* in the 2016 Gravity Research Foundation Awards for Essays on Gravitation for *A Microscopic Description of Black Hole Evaporation via Holography*
- 2016 *64M core-hours* as co-PI for First Lattice QCD calculation of the I=2 Two-Nucleon Parity Violating Amplitude, INCITE 2016
- 2015 *17.46M CPU-Hours* as co-PI for First Lattice QCD Calculation of the I=2 Two-Nucleon Parity Violating Amplitude, NERSC 2015 ERCAP Allocation
- FALL 2014 *10M CPU-Hours* as co-PI for Lattice QCD Investigation of Hadronic Parity Violation, NERSC 2014 Allocation
- SPRING 2013 *Ann G. Wylie Dissertation Fellowship*, University of Maryland
- 2011-2012 *JSA/Jefferson Lab Graduate Fellow*
- 2009-2013 *Research Assistanship*, Theoretical Quarks, Hadrons, and Nuclei Research Group
- 2008-2010 *Departmental Fellowship*, Physics Department, University of Maryland
- 2008 $\Sigma\Pi\Sigma$, Massachusetts Institute of Technology

Teaching

- SUMMER 2018 *Instructor* — for Physics 653 Seminar on Symmetries and Symmetry Breaking in Particle and Nuclear Physics, University of Bonn.
- WINTER 2017 *Substitute Lecturer* — for Theoretical Hadron Physics at the University of Bonn, covering spontaneous symmetry breaking, Goldstone's theorem and chiral symmetry in QCD.
- 2009-2013 *Substitute Lecturer* — prepare and deliver lectures to graduate classes in electrodynamics and quantum mechanics.
- SUMMER 2011 *Research Mentor* — provided daily guidance, technical and conceptual assistance for two high school students in the Montgomery Blair Magnet Summer Research Program, ultimately leading to publication [4].
- SPRING 2009 *Mechanics and Particle Dynamics* — Teaching Assistant for one section of introductory physics for engineers.
- SPRING 2009 *Inquiry into Physics* — In-class teaching assistant for introductory physics for elementary educa-

tors, focusing on qualitative physical understanding via lab-based learning.

FALL 2008 *Fundamentals of Physics I* — Teaching assistant in for two peer-discussion, tutorial-style sections of introductory physics primarily for pre-med students.

SUMMER 2005 *PADI Open Water Diver Course* — Instructor and certifier of record for 31 Open Water and Junior Open Water Divers, teaching academic and practical SCUBA diving knowledge.

Publications

- [35] Evan Berkowitz, M.A. Clark, Arjun Gambhir, Ken McElvain, Amy Nicholson, Enrico Rinaldi, Pavlos Vranas, André Walker-Loud, Chia Cheng Chang, Bálint Joó, Thorsten Kurth, Kostas Orginos. Simulating the weak death of the neutron in a femtoscale universe with near-Exascale computing. [hep-lat/1810.01609](#). 2018 Gordon Bell Finalist.
- [34] Chia Cheng Chang, Amy Nicholson, Enrico Rinaldi, Evan Berkowitz, Nicholas Garron, David A. Brantley, H. Monge-Camacho, Chris Monahan, Chris Bouchard, M.A. Clark, Bálint Joó, Thorsten Kurth, Kostas Orginos, Pavlos Vranas, and André Walker-Loud. A per-cent-level determination of the nucleon axial coupling from Quantum Chromodynamics. *Nature*, 558:91–94, 2018, [hep-lat/1805.12130](#). DOI:10.1038/s41586-018-0161-8.
- [33] Amy Nicholson, Evan Berkowitz, Henry Monge-Camacho, David Brantley, N. Garron, Chia Cheng Chang, Enrico Rinaldi, M.A. Clark, Bálint Joó, Thorsten Kurth, Brian Tiburzi, Pavlos Vranas, and André Walker-Loud. Heavy Physics Contributions to Neutrinoless Double Beta Decay from QCD. [nucl-th/1805.02634](#).
- [32] Evan Berkowitz, Masanori Hanada, Enrico Rinaldi and Pavlos Vranas. [Gauged and ungauged: a nonperturbative test](#). *Journal of High Energy Physics*, 2018(6):124, Jun 2018, [hep-th/1802.02985](#).
- [31] Chia Cheng Chang, Amy Nicholson, Enrico Rinaldi, Evan Berkowitz, Nicolas Garron, David Brantley, Henry Monge-Camacho, Chris Monahan, Chris Bouchard, M.A. Clark, Bálint Joó, Thorsten Kurth, Kostas Orginos, Pavlos Vranas, and André Walker-Loud. Nucleon axial coupling from Lattice QCD. *EPJ(Lattice 2017)21*, 2017, [hep-lat/1710.06523](#).
- [30] Evan Berkowitz, Christopher Körber, Stefan Krieg, Peter Labus, Timo Lähde, and Thomas Luu. Extracting the single-particle gap in Carbon nanotubes with Lattice Quantum Monte Carlo. *EPJ(Lattice 2017)319*, 2017, [hep-lat/1710.06213](#).
- [29] Christopher Körber, Evan Berkowitz, and Thomas Luu. Hubbard-Stratonovich-like Transformations for Few-Body Interactions. *EPJ(Lattice 2017)133*, 2017, [nucl-th/1710.03126](#).
- [28] Evan Berkowitz, Amy Nicholson, Chia Cheng Chang, Enrico Rinaldi, M.A. Clark, Bálint Joó, Thorsten Kurth, Pavlos Vranas, and André Walker-Loud. Calm Multi-Baryon Operators. *EPJ(Lattice 2017)344*, 2017, [hep-lat/1710.05642](#).
- [27] Evan Berkowitz, Gustav R. Jansen, Kenneth McElvain, and André Walker-Loud. Job Management and Task Bundling. *EPJ(Lattice 2017)335*, 2017, [hep-lat/1710.01986](#).
- [26] Enrico Rinaldi, Evan Berkowitz, Masanori Hanada, Jonathan Maltz, and Pavlos Vranas. [Toward Holographic Reconstruction of Bulk Geometry from Lattice Simulations](#). *Journal of High Energy Physics*, 2:42, 2018, [hep-th/1709.01932](#).
- [25] Christopher Körber, Evan Berkowitz, and Thomas Luu. [Sampling General N-Body Interactions with Auxiliary Fields](#). *EPL (Europhysics Letters)*, 119(6):60006, 2017, [nucl-th/1706.06494](#).

- [24] Evan Berkowitz, David Brantley, Chris Bouchard, Chia Cheng Chang, M. A. Clark, Nicholas Garron, Bálint Joó, Thorsten Kurth, Chris Monahan, Henry Monge-Camacho, Amy Nicholson, Kostas Orginos, Enrico Rinaldi, Pavlos Vranas, and André Walker-Loud. An Accurate Calculation of the Nucleon Axial Charge with Lattice QCD. 2017, [hep-lat/1704.01114](#).
- [23] Evan Berkowitz. [METAQ: Bundle Supercomputing Tasks](#). 2017, [physics.comp-ph/1702.06122](#).
- [22] Evan Berkowitz, Chris Bouchard, Chia Cheng Chang, M. A. Clark, Bálint Joó, Thorsten Kurth, Christopher Monahan, Amy Nicholson, Kostas Orginos, Enrico Rinaldi, Pavlos Vranas, and André Walker-Loud. [Möbius Domain-Wall fermions on gradient-flowed dynamical HISQ ensembles](#). *Phys. Rev. D*, 96:054513, Sep 2017, [hep-lat/1701.07559](#).
- [21] Amy Nicholson, Evan Berkowitz, Chia Cheng Chang, M. A. Clark, Balint Joo, Thorsten Kurth, Enrico Rinaldi, Brian Tiburzi, Pavlos Vranas, Andre Walker-Loud. Neutrinoless double beta decay from lattice QCD. *PoS(LATTICE 2016)017*, 2016, [hep-lat/1608.04793](#).
- [20] Evan Berkowitz. Supergravity from Gauge Theory. *PoS(LATTICE 2016)238*, 2016, [hep-lat/1608.01951](#).
- [19] Evan Berkowitz, Enrico Rinaldi, Masanori Hanada, Goro Ishiki, Shinji Shimasaki, and Pavlos Vranas. [Precision lattice test of the gauge/gravity duality at large \$N\$](#) . *Phys. Rev. D*, 94:094501, Nov 2016, [hep-lat/1606.04951](#).
- [18] Evan Berkowitz, Enrico Rinaldi, Masanori Hanada, Goro Ishiki, Shinji Shimasaki, Pavlos Vranas. Supergravity from D0-brane Quantum Mechanics. 2016, [hep-th/1606.04948](#).
- [17] Evan Berkowitz, Masanori Hanada, and Jonathan Maltz. [A Microscopic Description of Black Hole Evaporation via Holography](#). *International Journal of Modern Physics D*, 2016, [hep-th/1603.03055](#). Honorable Mention in Gravity Research Foundation 2016 Essay Competition.
- [16] Evan Berkowitz, Masanori Hanada, and Jonathan Maltz. [Chaos in Matrix Models and Black Hole Evaporation](#). *Phys. Rev. D*, 94:126009, Dec 2016, [hep-th/1602.10473](#).
- [15] Amy Nicholson, Evan Berkowitz, Enrico Rinaldi, Pavlos Vranas, Thorsten Kurth, Bálint Joó. Two-nucleon scattering in multiple partial waves. *PoS(LATTICE 2015)083*, 2015, [hep-lat/1511.02262](#).
- [14] Thorsten Kurth, Evan Berkowitz, Enrico Rinaldi, Pavlos Vranas, Amy Nicholson, Mark Strother, and André Walker-Loud. Nuclear Parity Violation from Lattice QCD. *PoS(LATTICE 2015)329*, 2015, [hep-lat/1511.02260](#).
- [13] Evan Berkowitz. [Lattice QCD and Axion Cosmology](#). *PoS(LATTICE 2015)236*, 2015, [hep-lat/1509.02976](#).
- [12] Evan Berkowitz, Thorsten Kurth, Amy Nicholson, Bálint Joó, Enrico Rinaldi, Mark Strother, Pavlos M. Vranas, and André Walker-Loud. [Two-Nucleon Higher Partial-Wave Scattering from Lattice QCD](#). *Physics Letters B*, 765:285 – 292, 2017, [hep-lat/1508.00886](#).
- [11] Evan Berkowitz, Michael I. Buchoff, and Enrico Rinaldi. [Lattice QCD Input for Axion Cosmology](#). *Phys. Rev.*, D92:034507, 2015, [hep-ph/1505.07455](#).
- [10] Appelquist *et al.* (The Lattice Strong Dynamics Collaboration). [Detecting Stealth Dark Matter Directly through Electromagnetic Polarizability](#). *Phys. Rev. Lett.*, 115:171803, Oct 2015, [hep-ph/1503.04205](#). PRL Editor’s Suggestion.

- [9] Appelquist *et al.* (The Lattice Strong Dynamics Collaboration). Composite Bosonic Baryon Dark Matter on the Lattice: SU(4) Baryon Spectrum and the Effective Higgs Interaction. *Phys. Rev.*, D89:094508, 2014, [hep-lat/1402.6656](#).
- [8] Evan Berkowitz. *Some Novel Phenomena at High Density*. PhD thesis, University of Maryland, College Park, April 2013. <http://drum.lib.umd.edu/handle/1903/14096>.
- [7] Evan Berkowitz, Thomas D. Cohen, and Patrick Jefferson. Multi-channel S-Matrices From Energy Levels In Finite Boxes. 2012, [hep-lat/1211.2261](#).
- [6] Paulo F. Bedaque, Evan Berkowitz, and Srimoyee Sen. Thermodynamics of Nuclear Condensates and Phase Transitions in White Dwarfs. 2012, [astro-ph/1206.1059](#).
- [5] Paulo F. Bedaque, Evan Berkowitz, and Aleksey Cherman. Neutrino Emission from Helium White Dwarfs with Condensed Cores. 2012, [nucl-th/1203.0969](#).
- [4] Paulo F. Bedaque, Evan Berkowitz, Geoffrey Ji, and Nathan Ng. Electron Shielding of Vortons in High-Density Quark Matter. *Phys. Rev. D*, 85:043008, Feb 2012, [nucl-th/1112.1386](#).
- [3] Paulo F. Bedaque, Evan Berkowitz, and Srimoyee Sen. Stable Vortex Loops in Two-Species BECs. *Journal of Physics B: Atomic, Molecular and Optical Physics*, 45(22):225301, 2012, [cond-mat.quant-gas/1111.4507](#).
- [2] Paulo F. Bedaque, Evan Berkowitz, and Aleksey Cherman. Nuclear Condensate and Helium White Dwarfs. *The Astrophysical Journal*, 749(1):5, 2012, [nucl-th/1111.1343](#).
- [1] Paulo F. Bedaque, Evan Berkowitz, and Aleksey Cherman. Vortons in Dense Quark Matter. *Phys. Rev. D*, 84(2):023006, Jul 2011, [nucl-th/1102.4795](#).

Invited Talks

- OCTOBER 2018 *The Nucleon Axial Coupling g_A from QCD*, Particle Physics with Cold and Ultracold Neutrons, Physikzentrum Bad Honnef, Bad Honnef, Germany.
- AUGUST 2018 *Progress in Two-Nucleon Spectroscopy*, XIIIth Quark Confinement and the Hadron Spectrum, Maynooth, Ireland.
- JULY 2018 *Progress in Two-Nucleon Spectroscopy*, Plenary session of the 36th Annual International Symposium on Lattice Field Theory, East Lansing, Michigan.
- JUNE 2018 *Job Management and Task Bundling*, International Workshop on OpenPOWER for HPC 2018, Frankfurt, Germany.
- MAY 2018 *Probing Do-brane Black Holes*, Numerical Approaches to Holography, Quantum Gravity, and Cosmology, Higgs Centre for Theoretical Physics, The University of Edinburgh, Edinburgh, Scotland.
- FEBRUARY 2018 *Neutrinoless Double Beta Decay at Lattice QCD*, Physics Colloquium, San Diego State University, San Diego, California.
- FEBRUARY 2018 *Black Holes and Supersymmetric Do-Brane Quantum Mechanics*, Nonperturbative and Numerical Approaches to Quantum Gravity, String Theory, and Holography, International Centre for Theoretical Sciences, Tata Institute of Fundamental Research, Bangalore, India.
- NOVEMBER 2017 *Lattice QCD Input to Axion Cosmology*, Axions at the Crossroads: QCD, dark matter, astrophysics, ECT*, Trento, Italy.
- JUNE 2017 *The Nucleon Axial Coupling from QCD*, Seminare Institut für Theoretische Physik II, Ruhr-Universität Bochum, Bochum, Germany.
- MAY 2017 *The Nucleon Axial Coupling from QCD*, OLCF Users Meeting, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

- MAY 2017 *The Nucleon Axial Coupling from Lattice QCD*, Low Energy Probes of New Physics, Mainz Institute for Theoretical Physics, Johannes Gutenberg Universität Mainz, Mainz, Germany.
- MAY 2017 *Neutrinoless Double Beta Decay and Lattice QCD*, Matter over Antimatter: The Sakharov Conditions after 50 Years, Lorentz Center, Universiteit Leiden, Leiden, The Netherlands.
- FEBRUARY 2017 *Neutrinoless Double Beta Decay and Lattice QCD*, ACFI Seminar, Amherst Center for Fundamental Interactions, UMass Amherst, Amherst, MA.
- AUGUST 2015 *Lattice QCD Input to Axion Cosmology*, Workshop on Microwave Cavity Design for Axion Detection, Lawrence Livermore National Laboratory, Livermore, CA.
- APRIL 2013 *Nuclear Condensation of Dense Helium*, Triangle Nuclear Theory Colloquium, NC State, Raleigh, NC.
- DECEMBER 2012 *Nuclear Condensation of Dense Helium*, Nuclear physics seminar, Stony Brook University, Stony Brook, NY.
- DECEMBER 2012 *Nuclear Condensation of Dense Helium*, Nuclear & High Energy Physics Seminar, Lawrence Livermore National Laboratory, Livermore, CA.
- Conferences, Programs, Meetings & Workshops
- OCTOBER 2018 *Particle Physics with Cold and Ultracold Neutrons*, Physikzentrum Bad Honnef, Bad Honnef, Germany
- SEPTEMBER 2018 *Quantum Gravity meets Lattice QFT*, ECT*, Trento, Italy
- AUGUST 2018 *XIII Quark Confinement and the Hadron Spectrum*, Maynooth University, Maynooth, Ireland
- JULY 2018 *LATTICE 2018*, East Lansing, Michigan
- JULY 2018 *XXII International Conference on Few-Body Problems in Physics (FB22)*, Caen, France
- JUNE 2018 *International Workshop on OpenPOWER for HPC 2018*, Frankfurt, Germany
- MAY 2018 *Numerical Approaches to Holography, Quantum Gravity and Cosmology*, Higgs Centre for Theoretical Physics, University of Edinburgh, Edinburgh, Scotland
- JANUARY 2018 *Nonperturbative and Numerical Approaches to Quantum Gravity, String Theory, and Holography*, International Center for Theoretical Sciences, Tata Institute of Fundamental Research, Bangalore, India
- DECEMBER 2017 *Technical Advances in Lattice Field Theory*, CP3-Origins, Odense, Denmark
- NOVEMBER 2017 *Axions at the Crossroads: QCD, dark matter, astrophysics*, ECT*, Trento, Italy
- OCTOBER 2017 *Computational Sciences and Reality*, Physikzentrum Bad Honnef, Bad Honnef, Germany
- JULY 2017 *Neutrinoless Double Beta Decay INT-17-2a and INT-17-67W*, Institute for Nuclear Theory, Seattle, Washington
- JUNE 2017 *LATTICE 2017*, Granada, Spain
- SPRING 2017 *OLCF Users Meeting*, Oak Ridge National Laboratory, Oak Ridge, Tennessee
- SPRING 2017 *Matter over Antimatter: The Sakharov Conditions After 50 Years*, Lorentz Center, Universiteit Leiden, Leiden, The Netherlands
- SUMMER 2016 *Frontiers in Nuclear Physics*, Kavli Institute for Theoretical Physics, Santa Barbara, California
- JULY 2016 *LATTICE 2016*, University of Southampton, Southampton, United Kingdom
- SPRING 2016 *Nuclear Physics from Lattice QCD INT-16-1*, Institute for Nuclear Theory, Seattle, Washington
- OCTOBER 2015 *Intersections of BSM Phenomenology and QCD for New Physics Searches INT-15-3*, Institute for Nuclear Theory, Seattle, Washington
- JULY 2015 *Numerical Approaches to the Holographic Principle, Quantum Gravity and Cosmology*, Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan
- JULY 2015 *LATTICE 2015*, Kobe, Japan
- APRIL 2015 *Lattice for Beyond the Standard Model Physics*, Lawrence Livermore National Laboratory, Livermore, California
- DECEMBER 2014 *USQCD QUDA Workshop*, Fermilab, Batavia IL.
- JULY 2014 *2014 SciDAC PI Meeting*, Office of Advanced Scientific Computing Research, Washington, DC
- JUNE 2014 *LATTICE 2014*, Columbia University, New York NY
- DECEMBER 2013 *Lattice Meets Experiment 2013: Beyond the Standard Model*, Brookhaven National Laboratory, Brookhaven,

New York

MARCH 2013 *Nuclear Reactions From Lattice QCD INT-13-53W*, Institute for Nuclear Theory, Seattle, Washington.

JULY 2010 *International Nuclear Physics Conference*, University of British Columbia, Vancouver, Canada.

JUNE 2010 *National Nuclear Physics Summer School and TRIUMF Summer Institute*, TRIUMF, Vancouver, Canada.

MAY 2010 *Workshop on Large N Gauge Theories*, University of Maryland, College Park, Maryland.

Service

- ONGOING *Referee* — Journal of Physics B: AMO Physics, Physical Reviews B & D, Journal of High-Energy Physics, Frontiers in Nuclear Physics.
- SPRING 2018 *Organizer, March for Science, Köln* — graphic design, social media, outreach.
- SPRING 2017 *Organizer, March for Science, Bonn* — helped with logistics, volunteers, speakers, etc.
- APRIL 2015 *Organizer, Lattice for Beyond the Standard Model Physics Workshop, LLNL* — ran a three-day workshop for high-energy theorists, string theorists, and lattice QCD practitioners.
- NOVEMBER 2014 *Volunteer, Bay Area Science Festival* — helping attendees navigate and otherwise enjoy the festival.
- MARCH 2014 *Judge and Team Leader, Contra Costa County Science and Engineering Fair* — judging awards for 7th and 8th grade student projects regarding the physical sciences.
- SPRING 2013 *Judge, Northern Virginia Regional Science and Engineering Fair* — deciding awards for 11th and 12th grade students on behalf of the MIT Club of DC.
- FALL 2010 *Seminar Organizer* — planning and organizing the joint seminar for the nuclear theory and experimental groups.
- SPRING 2010 *Judge, Montgomery County Science Fair* — deciding awards on behalf of the MIT Alumni Association.
- 2008-2009 *Volunteer, Physics is Phun* — setting up and guiding hands-on demos before the main program of the UMD outreach program targeted at middle- and high-school students.
- 2006-2007 *Volunteer, Harvard-MIT Mathematics Tournament* — preparing classrooms, directing participants to rooms, and providing other logistical support for the joint Harvard-MIT Math Tournament for high school students.

Skills & Interests

Computer Languages — C, C++, Mathematica, Python, Scheme, MATLAB, L^AT_EX, bash, HTML/PHP.

Familiar with Java, Perl, Fortran. Capable in domain specific software: QDP++, Chroma, hypr.

Language — Hablo un poco español, und ich spreche ein bisschen Deutsch.

PADI Open Water Scuba Instructor — #192443.

Diversions — skiing, cycling, hiking, rock climbing, billiards, puzzles and games, and sailing.

