

Trevor Demille - Curriculum Vitae

157 St. Laurent Parkway, Seekonk, MA 02771

Home: 508-761-9317 Cell: 774-219-8975

tdemille@umass.edu

Experience / Work History

Goldner Biophysics Research Lab ~ July 2015 - Still Currently Employed

Data Analysis Intern

Amherst, MA

- Responsibilities include design, preparation and execution of experiments, working with a fluorimeter and dynamic light scattering machine, building data analysis applications in MATLAB/Python, and overall lab maintenance.
- Presenting research results at various conferences (poster and oral presentations)

Kmart & Skyzone Indoor Trampoline Park ~ October 2011 - June 2015 (27 months)

Electronics Sales Associate ; Court Monitor

Attleboro, MA ; East Providence, RI

- Responsibilities included ensuring customer safety, refereeing kids' trampoline-dodgeball games, and maintaining park attractions.
- Responsibilities included stocking inventory, providing technical assistance, networking display televisions, pitching sales to interested customers, operating register, and cleaning

Seekonk Youth Group ~ 2007 - 2011 (month-count n/a)

Volunteer

Seekonk, MA

- Activities and projects included making wool blankets for donation to Sturdy Memorial Hospital, assisting at local food pantries, and facilitating community oriented fund raisers such as bake sales, children's Easter-egg hunts, and raffles

Education

University of Massachusetts Amherst

Major(s): Physics & Astronomy ~ Still attending

- Participating in Chess Club, Parkour Club, Japanese Combat Jui Jitsu, Super Smash Bros. Club, Science Fiction Society, Baker House Council, and Astronomy Club
- Holding a GPA to date of 3.445
- MATLAB, Python, HTML, CSS and (basic) JavaScript
- Independently conducted real-time simulations of acoustic dynamics in 2-dimensional lattice structures with randomly generated vacancies.
- Relevant classes: 'Computational Physics', 'Modern Physics', 'Stars and Galaxies', 'Techniques In Theoretical Physics', 'Quantum Mechanics', 'Differential Equations',

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'Statistical Physics', 'Electricity & Magnetism', 'Solid State Physics', 'Elementary Particle Physics', and 'Astrophysical Mechanics & Thermodynamics'

- Elective courses: 'Greek Mythology', 'Intro Japanese', 'My DNA (Biology)', 'US History to 1876', 'Consumer Economics', 'History of Science and Tech', 'Medieval Japanese Literature'

University of Massachusetts Dartmouth

Major: Astrophysics ~ No degree

- Attended two consecutive semesters before transferring
- Held an average GPA of 3.78
- Participated in Capoeira Club
- Relevant classes: 'Waves and Thermodynamics', 'Classical Mechanics', 'Calculus I&II'

LABO International Exchange Program

July 2012 - August 2012 (5 weeks)

- Lived in Kakamigahara, Gifu (prefecture), Japan as a cultural exchange student
- I speak, read, and write sub-conversational Japanese

Seekonk High School

Diploma - Class of 2013

- Completed in four years with an average GPA of 3.2
- Played JV/Varsity Soccer all four years
- Played timpani, bass, snare, and marimba in regionally competing percussion ensemble, 'Mallet Maniacs'
- Recognized for independently researching, designing, and constructing a working 500,000 volt Tesla coil in 2013.

Additional Information

Skills, Talents, and Achievements

- I am experienced and proficient with MATLAB, Python, HTML, CSS and I am familiar with basic JavaScript.
- I enjoyed presenting biophysics research results at the Annual Meeting of the New England Section of the American Physical Society at Wheaton College in Norton Massachusetts as well as a poster at the Biophysics Research Slam held at UMass Amherst.

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- I have a background and work experience applying advanced mathematics, physics, and computational data analysis.
- I am familiar with such disciplines and techniques as tensor algebra, real-time simulations, advanced dynamical systems and various electronics.
- I am an experienced artist; paint (oil, acrylic, watercolor), charcoal, graphite, etching, sculpture, clay modeling, oil pastel, inking, freehand portraits, tattoo and logo design
- I read, write, and speak sub-conversational Japanese (self-taught). I am also familiar with Spanish and Portuguese.
- I'm familiar with the Adobe suite software (ie. Illustrator, Photoshop, After Effects, etc.), as well as the stock Windows Office programs (ie. Word, Excel, Powerpoint, etc.).