

Tamar Shemeile Lambert-Brown

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Objective

My current objective as an undergraduate in physics is to obtain employment with an organization that will allow an opportunity to learn, research and experiment in the areas of physics, and that will enhance the mental knowledge base, promoting opportunity and encouraging educational and career growth. My primary objective is to become an established physicist, who can contribute to discovering and enhancing the understanding of the laws of nature governed by physics through experiment, in hopes of improving upon current and future technologies that may and can impact the human and worldly conditions in a more sustainable and non-wasteful way.

Software: Microsoft Office Professional Suites 2000-2010, Python, Java, IDL, Linux/Unix, e-macs, Mat-lab, Ds9, Pyscripter, Eclipse, Explorer, Google Chrome, Google Sketch up, Windows XP and Vista. (Types 80 words per minute) *Able to obtain clearance.

Languages: English (primary), Japanese and Spanish

Education

University of Maryland College Park (Bachelor's Degree)

First Year:

- Physics 171 (Introduction to Mechanics and Relativity)
- Physics 174 (Introduction to Laboratory Physics)
- Advance Placement Physics (Previous credit)
- Advance Placement Calculus (Previous credit)
- Math 141 (Calculus II)
- CMSC 131 (Java programming Language)
- Language/Linguistics

Second Year semester:

- Physics 272 (Introduction to Fields and Electricity & Magnetism)
- Physics 275 (Mechanics Lab)
- Math 241 (Calculus III[currently enrolled])
- CMSC 132 (Java programming Language)
- Psych 100 (Introduction to Psychology)
- Physics 273 (Introduction to Waves and Optics)
- Physics 276 (Electricity and Magnetism Lab)
- Physics 274 (Mathematical Methods for the Physics)
- CMSC 250 (Discrete Structures)

Third Year:

- Physics 401 (Quantum Mechanics 1)

- Physics 373 (Mathematical Methods II for Physics)
- CMSC 132 (Java Programming Language)
- Physics 399 D (Special Problems in Physics)
- INAG 101 Inventing Arguments
- Independent Study
- Physics Seminar
- Classical Mechanics

Fourth Year

- Quantum Mechanics II
- Intermediate Electricity & Magnetism
- Women's Studies
- Geology 120
- Philosophy Contemporary Moral Issues
- Physics: Intro to Statistical Thermodynamics
- Religious Studies Greek and Roman Mythology

University of Maryland University College

- Biology
- Principles of Successful Learning
- Concepts & Applications of Information Technology
- Writing

*Lower Grade Scientific Courses

- 4 years of Math (Algebra I + II, Geometry, Trigonometry, Calculus I, Advanced Placement Calculus)
- 4 years of Science (Biology I + II, Chemistry I + II, Physics I, Advanced Placement Physics)
- 3 years of Social Science (World History, Advanced Placement Government and Politics, Advanced Placement U.S. History) 3 years of Technology Education (Foundations of Technology, Impacts of Technology, Applications of Technology)

Work/Research Experience

Naval Surface Warfare Center, Carderock

Summer Intern

SSTPRS (Summer Student Theoretical Physics Research Session)

Student Researcher

(CNAM) Condensed Matter Physics Group (currently)

Research Assistant

- Undergraduate Researcher in condensed matter theory and general lab maintenance

(NRAO) National Radio Astronomy Observatory

Intern

- Research Experience for Undergraduate Program. Independent Astronomical research with the assistance of a Mentor Astronomer

Space Telescope Science Institute

Volunteer

- Responsible for reviewing unreleased Hubble Space Telescope images of our solar system that were to be used with a new "citizen science" program "Planet Pipeline"

The Department of Transportation

Mentee

- Learned the basics of Civil Engineering including surveying requests from communities
Receive 1st in competition for miniature bridge building & design

John Hopkins Summer Jobs Program

- Information Technology/IT – Telephone Technician Customer Service

Publications

On the Four Dimensional Holonomy of the 4D, $N = 1$ Complex Linear Supermultiplet - Wes Caldwell, Alejandro Diaz, Isaac Friend, S. James Gates, Jr., Siddhartha Harmalkar, Tamar Lambert-Brown, Daniel Lay, Karina Martirosova, Victor Meszaros, Mayowa Omokanwaye, Shaina Rudman, Daniel Shin, Anthony Vershov

Awards/Certificates

2016 – STEM Scholarship

Awarded to physics students by the National Science foundation who have achieved academic excellence and express financial need

June 10, 2013 - Ennis Quigley Memorial Scholarship for Physics

Awarded to a graduating senior for outstanding achievement and interest in Physics

AP Summer Academy Calculus Scholar

Aug 12, 2012

Top Calculus Scholar 2012 City Schools AP Summer Academy

June, 04, 2009

Certificate of Achievement for superior achievement in Social Studies

June 03, 2009

Certificate of Achievement for superior achievement in Mathematics

June 3, 2009

Certificate of Achievement for superior achievement in Language Arts

June 3, 2009

Certificate of Achievement for superior achievement in Science

June 3, 2009

In recognition of significant school and community contributions while participating in the Environmental Club

Jan 08, 2009

For Inspiration and Recognition of Science and Technology (Championship Tournament)

Jan 07, 2008

For Inspiration and Recognition of Science and Technology (Championship Tournament)

Jan 06, 2007

For Inspiration and Recognition of Science and Technology in the First Lego League (Official Tournament)

Extracurricular Activities

Feb 14 – Present (University of Maryland College Park)

Society for Physics Students (Former Vice President)

Sep 11 - Present

Computer programming (Python/JAVA Programming)

Extracurricular Past

High School

Robotics

High School

Environmental Club

High School

Recycling Club

REFERENCES

Vadim Belenky Navy Scientist
Navy Surface Warfare Center
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Sylvester James Gates Professor
University of Maryland College Park
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