

Eugene Joseph Geis, Ph.D.

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Curriculum Vitae

Accomplishments (in the past year):

1. Co-authored, designed, and published a 200-page instructional book on Model United Nations. It is currently on sale at my website and is in negotiations to be sold by another website in the coming months. My co-author and I successfully delivered a one-hour seminar to more than 150 students and advisors at Rutgers MUN conference in November, sold 25 books at that venue, and are scheduled to deliver a seminar for MUN advisors at Harvard and another private seminar to Kew Forest private school in January. Our book has been called “groundbreaking” by bestdelegate.com.
2. I created four websites and am in the process of creating 3 more using WordPress and DAP. They are modeluneducation.com, themuniversity.com, eugenegeis.com, and my wedding site, festageis.com. I am helping my wife begin her own blog, uneasyyogini.com and am beginning the fine-tuning of the SEO process for our book’s internet marketing campaign.
3. Assistant coach of **Most Improved wrestling team** in Middlesex County, 2012. The Edison Wrestling team’s record in 2010-2011 was 2-22. Our record in 2011-2012 was 11-8.
4. My former high school’s Model United Nations team is **nationally ranked** according to bestdelegate.com’s spring rankings at **#10**. My students have won multiple championship awards at several large national conferences under my leadership. I have also raised \$25,000 for this club in three years.
5. Was granted a prestigious **GAANN Fellowship** in the field of educational measurement and statistics at the Rutgers University Graduate School of Education. Currently having finished my very first semester, I have completed a 12-credit mathematically intensive courseload, earned a 4.0, and am already in the editing process for publication of my first journal article.
6. I was married in July. My wife and I managed every **detail** of our event and our vendors with 175 attending, concluding with the most rave reviews we could have imagined. Further, we designed and printed the programs, seating cards, favors (180 bottles of homemade limoncello), labels, and choreographed our dances with our parents. I don’t care if this is not normally perceived as an accomplishment, but if you have any experience with a modern wedding it is my opinion that successful completion of this process along with better than expected ‘emotional ROI’ belongs on a resume. ☺

SKILLS

Digital	Analog	Human
Windows, OSX, Linux MS Office Suite C++, Fortran, MATLAB, bash COMSOL, LabVIEW SPSS, HLM 7, BILOG, R, Ox HTML, CSS, Wordpress, LaTeX SEO, Social Media DC Magnetic Simulation/Design FEM Simulations Optimization/Minimization Digital Audio Recording & Mixing	Quantitative Methods Statistical Methods & Inference Precision Measurement Hardware and Software Troubleshooting Physics Data Research & Analysis Professional & Technical Writing Strong Organizational Skills Curriculum Design Analog Audio Engineering Live Audio Mixing & Production	Strong Presentation Skills Strong Interpersonal Skills Teaching & Tutoring Event Coordination Social Skills Expert Athletic Coaching Personal Counseling Athletic Performance Musical Performance Labor Relations Awareness Techniques

ACADEMIC & PROFESSIONAL EXPERIENCE

YEAR: TRAINING/POSITION

In chronological order:

1993-1996: *High School*, Edison High School, Edison, NJ

- Music: Selective Choirs, NJ All-Region, All-State
- Sports: Varsity Soccer, Track, Wrestling, Lacrosse
- Academics: Top 10%, 3.3 GPA, 1420 SAT (640 Verbal, 780 Math)
- Awarded Air Force ROTC scholarship (\$9000/year), turned down.

1996-2000: *Undergraduate Education*, Rutgers College, New Brunswick, NJ

- Academics: 5 semesters of Mechanical Engineering, changed major to Physics in Spring of 1999. **B.S. in Physics**, minor in Philosophy. 3.4 GPA.
- Music: 3 years participation in selective choir, Rutgers Glee Club.
- Sports: Nationally Competitive Co-ed Cheerleading, Intramural/Recreational competition.
- Organizations: AIAA
- Volunteering: Sexual Health Advocacy group, Freshmen mentoring
- GRE Scores - Verbal: 620; Quantitative: 800; Analytical: 790.

Fall, 1998-2000: *Substitute Teacher*, Edison School District, Edison, NJ

Fall, 1998-2000: *Retail Sales Associate*, CompUSA, Edison, NJ.

January-June, 2001: *Science Teacher*, John Adams Middle School, Edison, NJ

2001-2007: *Graduate School, Arizona State University, Tempe, AZ*

- Academics: **PhD**, Experimental Nuclear Physics, 3.4 GPA. Advisors: Ricardo Alarcon, ASU; Tancredi Botto, MIT; Michael Kohl, MIT. Research taken place at Bates Linear Accelerator Center, MIT, Middleton, MA. Teaching Assistant: Basics of Measurement, Algebra-based physics, Calculus-based physics, Assorted Physics Labs.
- **Thesis:** *Measurement of the Electric Form Factor of the Neutron and low Momentum Transfer.*
- Talks: 2006 APS Meeting, Jacksonville, FL. Measurement of the Neutron's Electric Form Factor at Low Momentum Transfer. 2005 Graduate Seminars, ASU, Tempe, AZ.
- Tutoring: All 6 years, assorted clientele ages 17 thru mid 40's.

2003-2007: *Research Assistant, ASU. Led by Professor Ricardo Alarcon, ASU.*

- BLAST Experiment, double-polarized electroscattering on monatomic deuterium. Analysis of electron-neutron quasielastic scattering in order to measure the electric form factor of the neutron.

2003-2007: *Collaborative Scientist, MIT-Bates Linear Accelerator Center. Led by Tancredi Botto, MIT.*

- Heads of Analysis: Tancredi Botto, MIT and Michael Kohl, MIT (presently asst. professor at Hampton Univ.)
- Responsibilities including but not limited to: Continuous analysis and error correction of experimental results, Kinematic Reconstruction, Calibration and fine-tuning of Neutron detection and kinematics, Calibration of Cerenkov detection efficiencies.

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2006-2007: *Audio Engineering school, Conservatory for Recording Arts and Sciences, Gilbert, AZ.*

- Certifications include TC M3000, S6000, SIA SMAART, Pro Tools 100 & 200 & 210, AutoTune.
- Knowledge of Signal Flow, Microphones, Tape Machines, Digital Multitracks, Analog Consoles such as Neve VR, Neotek Elite, Yamaha PM3500 and PM4000M, and SSL 4000 Series, and various analog and digital outboard gear including compressors and time-based processors.
- Over 200 hours studio time accrued.

Summer, 2007: *Audio Engineering Internship, The Salt Mine, Recording studio in Mesa, AZ.*

- Manager: Don Salter.
- Conducted assorted technical and maintenance tasks. Provided assistance in setup and breakdown of studio sessions and studio maintenance.
- Provided direct, face-to-face customer service to clients.

Summer, 2007: *Audio Engineering Internship, Diesel Games, Tempe, AZ.*

- Manager: Michel Henein.
- Recorded and edited sounds and sound effects for the upcoming video game "Deprived" featuring a completely new audio processing engine designed to create a COMPLETE sonic 3D experience using **AstoundSound** by **GenAudio**.

2007: *Energy Auditing Consultant, ESPM Energy, LLC.*

- Energy auditing, infrastructure lighting and compressor retrofit design for the tri-state area.

2007-2012: *Science Teacher*, JP Stevens High School, Edison, NJ. Supervisor: Laura Darrah, Hope Benson.

- Advisor of JPS Model United Nations (**ranked #10 in USA**), Science League, Robotics Club, and Founder of the Free Thought Society. Developing and promoting STEM inquiry-based education.
- Physics Curriculum developer and coordinator, writing both the midterm and final for level 1 physics in Edison township.
- I mentored six high school students (each on their way to a top-tier university, including Princeton) who engaged in a **research project** to measure the differences in radiative heat exhibited by wires coated with a patented highly emissive paint. They were able to **achieve measurements** that showed a 2.7% increase in power transferred by coated wires.
- Wrestling Coach at Edison High School – **Most Improved team in Middlesex County, 2012.**

Summer, 2009 - 2011: *Physicist*, Twinleaf LLC

- Simulated and optimized magnetic shielding and generating coils for magnetometer calibration. Worked on developing a highly sensitive polarimeter for optical atomic sensors. Designed fluxgate magnetometers, and developed calibration software for gaseous exotic alkali isotope cells. Managed quotes for custom field coils, shields, and optics. Worked under Thomas Kornack, Ph.D.
- Using COMSOL FEM software and MATLAB, I wrote a GUI interface software package for **multivariable optimization** of the geometry of highly permeable magnetic shielding and three-axis solenoidal field generating coils for a magnetic flux variation of less than 0.1% in the region of a spin-exchange relaxation-free atomic cell for ultra-precise.
- I wrote **my own optimizing ray tracer** software in MATLAB for a double cylindrical mirror, multi-pass optical cell in order to find the necessary machine tolerance to identify potential vendors for constructing this optical cell. My tolerances independently matched the outputs of optical engineers of another company using some of the **most expensive professional ray tracing** software on the market.
- Website: <http://www.twinleaf.com/>

September, 2009 - Present: *Established Lightstream Enterprise, LLC*

- The business will focus on computer simulations of finite element analysis, educational training and workshops, and spiritual consultation.
- Piloting business plans to pursue venture capital in order to develop consumer residential utility monitoring devices and UV-LED Vitamin D supplement technology.
- Website under construction: <http://www.themuniversity.com> which is a website to sell my eBook on Model UN.

Winter, 2009-2010: *Marketing and distribution* for the product Evolv

- Multi-level marketing team established and running throughout central NJ.

January, 2011: *US Open Martial Arts Competition*

- **First Place** – Moving push hands under 175 lbs.

2011 – Present: *Co-authored “MUN-E: How to be Social, Diplomatic, Win Allies, Influence People, and GAVEL!!”*

- Self-published in Summer, 2012.
- Designed and developed the online instructional website, TheMUNiversity.com, which will be a membership instructional forum with content provided by the book.
- Currently facilitating seminars on the east coast, including Rutgers University, Harvard University, and private and public high schools.
- Currently Kindle formatting the book and updating for a second revision.
- Long-term projects include a mobile, interactive textbook app with active links to the website and a high school summer regional Model United Nations conference and workshops serving central NJ, operated through themuniversity.com & modeluneducation.com.

2012 - Present: *Web design projects*

- Created my blog: www.doctorgeno.com
- Developing my wife’s blog: www.uneasyyogini.com
- Creating aggregate sites for SEO.
- Monetizing a side-project affiliate marketing website.

2012 – Present: *GAANN Fellowship at Rutgers Graduate School of Education*

- Earned a 4.0 in first semester of heavy statistical course load.
- Application pending for poster presentation at NCME in first semester of graduate research.
- Working towards first publication of research in parametric and non-parametric methods of Q-matrix validation for DINA model with Jimmy de la Torre, Ph.D. and Chai-Yi Chiu, Ph.D.