

# Elizabeth Glista

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## Education

**Massachusetts Institute of Technology**, GPA 4.9

Candidate for Bachelor of Science in Mechanical Engineering and Minors in French, Economics

*Relevant coursework: Mechanics and Materials, Design and Manufacturing, Dynamics and Control, Thermal-Fluids Engineering, Differential Equations, Microeconomics*

**Cambridge, MA**

*June 2017*

**George Walton Comprehensive High School**

GPA: 4.67, Class Rank: 7/620, SAT: 2260

**Marietta, GA**

*May 2013*

## Work Experience

**Université Pierre et Marie Curie, Institut Jean le Rond d'Alembert**

*Research Intern*

**Paris, France**

*Summer 2015*

- Designed peeling tests with single and randomized heterogeneities to examine the dynamics of heterogeneous fracture.
- Evaluated and amended the experimental protocol to provide a more reliable method of silicone elastomer peeling test preparation.
- Formulated MATLAB code to analyze the non-uniform front shapes of peeling tests and compared the numerical results to mathematical theory.
- Addressed the d'Alembert group in a thirty minute presentation at the internship conclusion.

**MIT, Experimental Hydrodynamics Laboratory**

*Research Intern*

**Cambridge, MA**

*Summer 2014*

- Conducted experiments using 3D Particle Image Velocimetry (PIV) to analyze the hydrodynamics of piston vortices.
- Developed MATLAB code to perform image analysis of PIV data.

## Community Service and Leadership

**MIT Project Connect**, Students Serving Youth with Disabilities

*Co-President*

**Cambridge, MA**

*2013 – Present*

- Organize club leadership structure and recruit officers for the club.
- Plan and execute monthly events to include Boston youth with disabilities on MIT's campus.
- Collaborate with student clubs at Harvard and Boston University and local non-profits in a student mentorship program.

## Activities

**DI Women's Varsity Openweight Crew**

- Named to the 2014 and 2015 Patriot League Academic Honor Roll and one of twelve rowers to be named to the 2015 Academic All-Patriot League Team.
- Recognized as a 2015 National Scholar-Athlete by the Collegiate Rowing Coaches Association.

**Cambridge, MA**

*2013 – Present*

**January Scholars in France**

- Selected to study French language, art, history, architecture, and urban planning in Paris for two weeks. Studied under the guidance of MIT Professor Sabine Levet.

**Paris, France**

*January 2015*

**Alpha Phi Sorority**, Zeta Phi Chapter

*2013 – Present*

**Women's Technology Program in Mechanical Engineering**

- Evaluated ocean energy harvesting techniques using cost-benefit analysis under the direction of Professor Franz Hover.
- Presented work to the MIT community at a question-and-answer poster session.

**Cambridge, MA**

*Summer 2012*

## Awards and Achievements

MIT Arts Scholar (2015) \* National Honor Society (2012 – 2013) \* *Société Honoraire de Français* (2011 – 2013) \* Congressional Award, Silver Medal (2012) \* AP Scholar with Distinction (2012) \* WHS Physics Department Award (2012) \* WHS Raider Pride Award for Character (2009)

## Skills

*Software:* MATLAB, SolidWorks CAD, Microsoft Office

*Languages:* Written and spoken proficiency in French

*Health:* NOLS Wilderness First Aid, CPR