

# Yuliya Preger

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## EDUCATION

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### Massachusetts Institute of Technology

Cambridge, MA

Candidate for Bachelor of Science in Chemical Engineering

June 2013

GPA: 4.5/5.0

Relevant Coursework: Introduction to Chemical Engineering, Thermodynamic & Kinetics, Organic Chemistry

## EXPERIENCE

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### Biomaterials Science and Engineering Laboratory

Cambridge, MA

Undergraduate Research Opportunities Program (UROP)

October 2010-present

- Using HPLC to isolate unique components of palm oil effluent and quantify the shikimic acid concentration in various substances
- Ultimate objective: characterize the radical scavenging abilities of various molecules to identify ones with antioxidant potential

### Jet Propulsion Laboratory

Pasadena, CA

Summer Research Intern

June-August 2009

- Worked as part of a team of summer students to characterize various Pt-alloy thin films for use as catalysts in fuel cells
- Analyzed pre/post corrosion data by SEM, XRD, AFM and profilometer to identify the most stable alloy and composition
- Performed research into the stability of various compositions/methods of preparation to anticipate results and identify ways the films could be modified

## LEADERSHIP & MANAGEMENT

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### KEYs to Empowering Youth

Cambridge, MA

Co-Chair

February 2010 – present

- Worked with a co-chair to coordinate all aspects of a Society of Women Engineers STEM outreach program for middle school girls
- Organized lectures, hands-on projects and lab tours for thirty girls several times a semester.

### MIT Career Fair

Cambridge, MA

Director: Day-of Logistics

May – September 2010

- Worked with a team of six other students to plan and coordinate all aspects of the MIT Career Fair and associated infosessions
- Specific role: arranged everything in the venue (event contractors, catering, etc.) for the day of the Career Fair for 300+ companies and ~4000 students
- Communicated extensively with employers, students, school administration and event suppliers to ensure their needs were met.

## SKILLS

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**Computer:** Matlab, Microsoft Office

**Languages:** Fluent in English and Russian; Basic Spanish

## INTERESTS/ACTIVITIES

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FIRST Robotics, Archery, Biomimicry