

Alex Tang

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EDUCATION:

Yale University, New Haven, CT

Current GPA: 3.77

Bachelor of Science, Mechanical Engineering; Bachelor of Arts, Economics

expected May 2018

Relevant Coursework: Physics, Chemistry, Multivariable Calculus, Differential Equations, Linear Algebra, Strength and Deformation of Materials, Fluid Mechanics, Mechanical Design, Materials Science, Thermodynamics, Dynamics, Renewable Energy Technologies

Oxford University, Oxford, England

Mark: Distinction

Global Challenges of the 21st Century – Environmental, Technological and Urban Sustainability Summer 2016

RESEARCH, INTERNSHIP, AND WORK EXPERIENCE:

- 2015 Summer **Researcher**, Elimelech Lab, Yale University
Studied molecular layer by layer construction of forward osmosis desalination filters.
Built and modified experiment robot and equipment.
- 2014 Summer **Research Assistant (paid)**, Luscombe Lab, University of Washington
Developed silver nanowire ink for optically clear, conductive, and touch sensitive devices.
- 9/2013–6/2014 **Research Intern**, Luscombe Lab, University of Washington
Investigated transition metal dichalcogenide monolayer materials: synthesis and applications.
- 2013 Summer **Research Scholar**, Garcia Center for Polymers at Engineered Interfaces at Stony Brook
Conducted a research project on battery and solar cell efficiency for emergency power generation.
- 2013 Summer **Math Teacher (paid)**, Eastside Education
Prepared middle school students for the Mathcounts competition.

ACTIVITIES:

- 9/2016–Present **Project Lead**, Yale Hyperloop
Organized team meetings. Led design of Hyperloop pod power subsystem.
- 1/2016–Present **Vice-President, Board Member**, Yale Undergraduate Research Association
Organized summer showcases, Yale Undergraduate Research Conference, and workshops for undergraduate researchers. Constructed a research database for undergraduates
- 9/2015–Present **Member**, Yale Undergraduate Diversified Investments
Learned and practiced investment and networking techniques
- 9/2007–Present **Vice President, Executive Officer, Event Speaker**, Bellevue Youth Link Council
Organized monthly citywide community service projects and events.
Spoke at biannual Youth Involvement Conferences and Youth Link University
- 9/2007–6/2014 **President**, Interlake Future Problem Solving Club
Organized competition logistics and advised less experienced members.

AWARDS AND HONORS:

- Santander Scholar, **Santander Bank**, 2016
- Reba H. and James M. Sharpe Scholar, **Yale University**, 2015
- Yale Dean's Freshman Research Fellowships in the Sciences, **Yale University**, 2015
- Maxwell Scholar, **Maxwell Foundation**, 2014, 2015, 2016
- Phil Kushlan Leadership Award, **City of Bellevue and Bellevue School District**, 2014
- International Baccalaureate Graduate, **International Baccalaureate**, 2013
- Presidential Volunteer Service Award, **President's Council on Service and Civic Participation**, 2012

ADDITIONAL SKILLS:

- **Computer:** Stata, Microsoft Office, Python, ArcGIS, Adobe Photoshop, Cn3D, JalView, ClustlW2
- **Laboratory:** DNA purification and extraction, Polymerase Chain reaction (PCR), Agarose gel electrophoresis, Microscopy, Titration, Solution preparation, Spin casting, Ellipsometry, Compression molding, Contact angle goniometry, UV-Vis spectrophotometry
- Received general lab safety training, **Yale University** 2015
- **Language:** Advanced Spanish, Intermediate Mandarin