

Julian Vallyeason

Email: julian_vallyeason@brown.edu | Phone: (571)-296-5740

EDUCATION

Brown University

Providence, RI Class of 2020

Current GPA: 4.0 (out of 4.0) **Intended Concentration:** Sc.B Applied Mathematics-Economics and Chemical Engineering
Relevant Coursework: Differential Equations, Electrodynamics, Macroeconomics, Microeconomics, Real Analysis

Thomas Jefferson High School for Science and Technology

Alexandria, VA 2013-2016

GPA: 4.53 (4.0 scale weighted), **SAT: 2400; ACT: 36;**

National Merit Finalist (Scholarship Recipient), National Honor Society (NHS), National AP Scholar

EXPERIENCE

Cloud Agronomics, *Cofounder and CFO*

September 2016 - Present

- Founded solar-powered UAV startup that leverages proprietary imaging technology to provide aerial data acquisition services
- Managed UAV financing and development; Recipient of Brown's Social Innovation Explore Grant; Penn Aerospace Finalist

World Resources Institute, *Movement Building Intern*

Summer 2017

- Developed analysis tools using GDELT and social media API's to engineer a data-driven strategy for forest restoration
- Conducted interviews with leading forestry and agriculture experts and activists

Perfect SAT-ACT Tutoring, *Cofounder, Lead SAT Instructor* (<http://www.perfectsat.act.com/>)

August 2015 – June 2017

- Conducted outreach and publicity campaigns to solicit clients; organized monthly seminars to expand business
- Lead bi-weekly SAT tutoring sessions with 5 students and constructed 12-course curriculum outline for SAT preparation
- Recruited over 50 clients through tutoring and consultation services

US-Asia Institute, *Political Affairs Intern*

Winter 2016 - 2017

- Represented USAI at briefings and congressional hearings; wrote reports on related issues on US-Asia relations
- Corresponded with legislative staff and organized Congressional delegations to Asia

ACADEMIC RESEARCH

JUMP Lab Microbial Fuel Cell Engineering, *Project Manager*

September 2014 – June 2016

- Developed a mathematical model to optimize current and voltage output while maintaining a sustainable system in soil-based microbial fuel cells under different substrates
- Virginia State Science and Engineering Fair 1st Place Award (2015); Genius Olympiad Research International Finalist (2015)
- Princeton Envision Entrepreneurship Finalist (2nd Place); TigerLaunch Regional Finalist; Raised over \$5000 in seed funding

Univ. of Maryland (Herberholz Lab) Neuroscience Research, *Research Intern*

June 2015 – February 2016

- Designed and conducted research on the role of sensory signals in crayfish dominance hierarchies
- Wrote and submitted a paper on research findings highlighting connection to behavioral disorders
- US Public Health Service Distinguished Project Award (2016); Virginia Tech National Capital Region Best Project (2016)

COMMUNITY SERVICE AND OUTREACH

Montfort Youth Center (Malaysia), *Volunteer Instructor*

Summer 2014

- Nonprofit institution focused on giving underprivileged students across Malaysia access to a technical education
- Taught mathematics and English to classes of 40 upper-level students at the center; planned and oversaw social events

ACTIVITIES, SKILL SETS & INTERESTS

Languages: English (native), French (Professional), Mandarin (Limited Working Proficiency)

Computer: Microsoft Office, Adobe Photoshop / Illustrator, Autodesk Eagle, SolidWorks, Bloomberg (BESS), Wolfram Mathematica

Technology: Java, MATLAB, Python, HTML5 / CSS, Javascript

Music: Royal Conservatory of Music Piano Performance Level 10 (First Class Honors); Music Theory-Harmony (Honors)

University Student Organizations:

Power Systems Researcher, **Brown Satellite Team**

Designed PCB boards with solar cells. Conducted LiFePO₄ heat and vacuum testing. Developed conformal silica gel coating procedure

Business Associate, **Brown Journal of World Affairs**

Managed and produced website content for outreach and information dissemination. Responsible for the journal's administrative liaisons

Market Insights Committee, **Brown Trading Club**

Prepared monthly presentations on various economics and finance topics