David A. James (661) 666-2009 github.com/DJ-2805 davidabraham@ucla.edu linkedin.com/in/dj-2805/ University of California: Los Angeles Education Degrees: B.S. Mathematics of Computation, Geophysics and Planetary Physics Minor Hermanos Unidos; Triangle Fraternity for Engineers, Architects, and Scientists College of the Canyons Degrees: Associates in Mathematics, Assosciates in Physics Skills Programming: C++, Python, JAVA LATEX, Matlab Relevant Math 142: Mathematical Modeling Applied Maths: Mathematical Modeling, Numerical Coursework Math 164: Optimization EPS SCI 136A/B: Applied Geophysics Analysis, Optimization Other: Tutoring, Project Management, Staff Man-Physics 105: Mechanics agement, Public Speaking, Soldering, Milling, Ma-Physics 110: Electricity and Magnetism chining, Lab experience, Microsoft CS 31: Computer Science I CS 32: Computer Science II Research DataFest 2017 Experience Title: Data Analysis May 2017 Project: Team developed a machine learning algorithm to determine purchase pattern of algorithms • Extracted data, so that team can work with smaller sets • Analyzed data via matrices to confirm machine algorithm was accurate • Created presentation to present results to audience and judges NASA High Altitude Student Platform: Electrostatic Cosmic Dust Collector [ECDC] Title: Systems Engineer Fall 2016 - Fall 2017 Project: Team developed an optimized device to place on the HASP to collect particles from celestial • Researched corona discharge to optimize the electrostatic dust collection NASA High Altitude Student Platform: Electrostatic Cosmic Dust Collector [ECDC] Title: Systems Engineer Fall 2015 - Fall 2016 Project: Team developed a device to place on the HASP to collect particles from celestial showers. Modelled systems and possible scenarios the ECDC will go through during flight, so that the team would know design requirements College of the Canyons Fair: Sonoluminescence Title: Researcher and Analyst Fall 2013 - Spring 2014 *Project:* Team constructed an apparatus to display the sonoluminescence phenomena. • Researched sonoluminescence • Constructed the apparatus by soldering a circuit together Work College of the Canyons September 2014 - June 2016 Experience Title: MESA Tutor/ Workshop Facilitator/ Math and Science Tutor • Assisted students in mathematical or scientific homework or questions • Lead Academic Excellence Workshops in the MESA Center Gentle Ride Ambulance May 2014 - December 2014 Title: EMT-B Patient care such as vitals, assessments, medical interventions • Giving and taking medical history reports Papa John's Pizza May 2013 - April 2014 Title: Assistant Manager • Took orders and ran register in the store • Surveyed systems at other businesses • Closing the restaurant and stock counting High Pressure Technologies LLC May 2011 - July 2011 Title: Machine Shop Intern • Assisted machinist with pressure system repair • Surveyed systems at other businesses • Learned machining and workshop environment

Clubs/ Engineering Leadership UCLA CalGeo California Geotechnical Experience Community Service Chair Fall 2017-Spring 2018 Interests Association [CalGeo] • Planned community service events BruinSpace • Planned public outreach events Society of Physics Students [SPS] American Physical Society [APS] **Astronomy and Physics Club** President Fall 2015-Spring 2018 American Chemical Society [ACS] Mathematics, Engineering, Science Started and manged club events • Wrote budget proposals Achievment [MESA] Salsa Club