

DAVID NEWCOMB

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EDUCATION

- 09/10 – 06/14 **STANFORD UNIVERSITY (B.S.)** **STANFORD, CA**
B.S. in Mathematical and Computational Science
- Specific Math courses: Multivariable Calculus, Linear Algebra, Matrix Theory, Group Theory, Probability Theory, Ordinary Differential Equations, Linear & Non-linear Optimization, First-Order Logic, Applied Statistics, Statistical Inference, Stochastic Modeling, Scientific Computing
 - Depth track in Engineering (GPA – 3.69)
- 01/14 - present **STANFORD UNIVERSITY (M.S.)** **STANFORD, CA**
M.S. in Management Science & Engineering
- Specific Math classes: Probabilistic Analysis, Risk Analysis, Optimization of Uncertainty, Unsupervised Machine Learning, Topic: Monte Carlo
 - Depth track in renewable energy under the focus of Energy and Environment
 - GRE – 168 (Verbal), 164 (Math), 4.5 (Writing)
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EXPERIENCE

- Summer 2014 **CARBON LIGHTHOUSE** **SAN FRANCISCO, CA**
Engineering Intern (40 hrs./week)
- Built a Measurement & Verification tool (R) to gauge energy saving impact of efficiency projects:
 - Formed predictive models w/ factor analysis, multiple linear regression & stepwise AIC
 - Checked models using bootstrapping (autocorrelation) & cross validation (over-fitting)
 - Presented final results numerically and graphically with confidence intervals
- Summer 2013 **SAMSUNG** **MOUNTAIN VIEW, CA**
Partnerships & Operations Group Intern (40 hrs./week)
- Performed Principal Component Analysis on various features of 30+ mobile messaging apps to rank, then evaluate the apps (R) – gave final presentation with strategy recommendations
 - Met with and assessed several software start-ups for partnerships with Samsung
- Summer 2012 **TXU ENERGY** **IRVING, TX**
Finance Intern (40 hrs./week)
- Built a scenario analysis tool for electric plans that incorporated projected natural gas prices & expected consumer energy use in order to calculate expected profits (Excel)
 - Created web layouts for solar and wind energy campaigns with partner SolarCity.
- 09/11 – 01/12 **ALTA ENERGY** **SAN MATEO, CA**
Independent Contractor (8 hrs./week)
- Researched solar panel installation and the solar marketplace to assist with internal projects
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PERSONAL INFORMATION

Languages: **Proficient** | R, Java, C++ **Moderate** | Python, C **Elementary** | Ruby on Rails, JQuery, HTML, CSS
Projects: NBA season paths and predictions (probabilistic models & data visualization), Personal Website (Github)
Interests: Reading poetry, hiking, biking, climbing trees, music festivals, & sports: track & field, basketball, Frisbee
Other: Fluent in Spanish, Captain of Stanford Men's Ultimate Frisbee Team, MS&E 111 Tutor