

# Lucas Spangher

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<b>OBJECTIVE</b>	Tackle strategy and statistics problems in green energy deployment.	
<b>EDUCATION</b>	<b>Duke University</b> , B.S. in Statistics and B.S. in C.S. with Minor in Mathematics; <i>Graduation with Highest Honors</i> in Statistics Department <b>Oxford University</b> , New College: Victorian Literature	<i>Class of 2014</i> <i>Summer 2011</i>
<b>TECHNICAL SKILLS</b>	<b>Languages &amp; Software:</b> R, MatLab, L <sup>A</sup> T <sub>E</sub> X, Python, MySQL, Java <b>Operating Systems &amp; Hardware:</b> Linux/Unix, DOS, SEM, XPS, XRD	
<b>EXPERIENCE</b>	<b>NSF Traveling Research Scholar</b> <i>2014- 2015</i> Lived in a rural Indian village for 13 months; Designed and built 5 solar microgrids covering 70 families, analyzed their social effects and techno-financial viability. <b>Google Ventures: 1618 Labs</b> , Data Analyst <i>2013</i> Built a hierarchical cluster-regression hybrid model that saved \$3 million for government scheme incentivizing decongestion in Singapore's public transit. <b>Stem: Energy Optimization Startup</b> , Data Analyst <i>2012</i> Solar load generator (VB shell on SamUL script), anomaly detection algorithm (Python shell on Matlab), live data compressor (PyRRD). Patents pending. Patched PyRRD. <b>Echeverri Lab at Duke University</b> , Research Assistant <i>2012- 2014</i> Modelling green energy investment under uncertainty (SamUL, UIT, MatLab) <b>Glass Labs at Duke; Garcia Labs at Stony Brook Uni</b> <i>2008 - 2011</i>	
<b>ACADEMIC AWARDS</b>	<b>Angier B. Duke Scholarship:</b> Four-year award of tuition, room and board with paid summer program in Oxford University and \$7000 research funding. 1 of 15 recipients from Duke's entire applicant pool. <b>Honorary Udall Scholar:</b> Most prestigious undergrad env award in USA, 2013 <b>First Place Award:</b> National DataFest 2013 <b>Silver Medal:</b> International Sustainable Energy Olympiad, 2010 <b>Speaker/Presenter:</b> MIT Energy Conference '12, Harvard REC '12, AASHE '12 <b>Scholarships:</b> National Merit Scholarship, Byrd Scholarship, Morrison Scholarship, John Jay Scholarship, Tanners Scholarship, Century Scholarship <b>Deans List with Distinction:</b> Spring 2011, Fall 2012, Spring 2013, Fall 2013	
<b>LEADERSHIP</b>	<b>Op Ed Writer:</b> Bi-weekly articles in Huffington Post, Duke Chronicle, Takepart.org <b>Designed and Taught Online Class:</b> "Mech of Env Consciousness" Dept Env Science: <a href="http://www.udemy.com/env-consciousness/">http://www.udemy.com/env-consciousness/</a>	
<b>INTL EXPERIENCE</b>	<b>Languages:</b> English, Italian, Hindi, Kannada, French, Spanish <b>Chile Researcher:</b> climate change on Chilean botany; Catholic Uni collaborated 2014 <b>China, Lecturer:</b> green tech in Beijing; featured on NDDaily & CCTV 2012 <b>Palestine, West Bank: Researcher:</b> climate change on Bedoin communities 2015 <b>Paraguay, LEED Certification:</b> Helped found the first LEED council 2012	
<b>OTHER HONORS</b>	Eagle Scout Award, 2009 Performed cello 10+ times in Carnegie Hall with NY Youth Symphony	