

Ted Sanders

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OBJECTIVE

To work with smart people on challenging problems

EDUCATION

PhD Applied Physics; Stanford University (3.6/4.0) *est. 2016*
MS Applied Science & Technology; UC Berkeley (3.7/4.0) *2012*
BA,BS Economics-Mathematics, Engineering Physics; UC San Diego (3.8/4.0) *2010*

WORK

Graduate Student Researcher, Stanford University/UC Berkeley *2010 - Present*

- Synthesized complex-oxide crystals used to build a SketchFET, the world's very first nanoscale, GHz-speed writeable transistor (for applications in high-speed molecular sensing)
- Helped lead rebuild of cutting-edge physics laboratory worth several million dollars

Smart Grid Researcher, San Diego Gas & Electric (#1 UtiliQ Ranking) *Summer 2009*

- Led team that authored a 136-page research report on the financial and technical challenges of integrating large amounts of distributed solar power into the grid

Calit2 Summer Scholar, Nanoscale Characterization and Devices Lab *Summer 2008*

- Modeled nanowire/quantum-well solar cells that beat Shockley-Queisser 34% efficiency limit

Engineering Intern, General Atomics – Electronic Systems Inc. *Summer 2007*

- Worked with users to single-handedly designed an automated capacitor test station that saved labor costs, sped up production, and provided data to process engineers

LEADERSHIP

Co-host of science/humor podcast Goggles Optional (30,000+ downloads, iTunes-featured)

Co-founder of Materials Research Seminar Series at UC Berkeley

Columnist for MRS Bulletin, the world's number one magazine for materials science

Blogger and tweeter on behalf of Materials Research Society

Author and editor on Wikipedia as part of WikiProject Physics and WikiProject Economics

Teacher for educational pilot of Foldscope (<\$1, 140x mag. microscope demoed at TED in 2012)

Volunteer for Maker Faire, Science Bowl, Science Bus, SF Science Fair, Synopsis Sci. & Tech.

Championship, Bay Area Science Festival, Engineers Week, Dinner with a Scientist (feat. by White House), Techbridge Girls, Bay Area Science In Schools (lead lecturer), Boys & Girls Club of America, Stanford SPLASH (course co-designed with bridge Women's World Champion)

AWARDS

NSF Graduate Fellow (\$100k+ award)	1 st Place SciCast Technology Forecasting Comp.
Jacobs Scholar (\$100k+ full ride to UCSD)	1 st Place Hypermind NGDP Futures Trader
Gordon Scholar (for engineering leadership)	1 st Place ECE Senior Design Project Presentation
Regents Scholar (for academic excellence)	1 st Place IEEE SW Student Ethics Competition
Calit2 Scholar (for 2008 summer research)	1 st Place Cal IEEE Computer Security Challenge
ACBL Scholar	1 st Place Oregon High School Chess Team (Capt.)
Award for Excellence in Joint Mathematics-Economics (awarded to one outstanding graduate)	