**Douglas Rice**

**Education \_\_\_\_\_**

Arizona State University, Tempe, Arizona **2015-current**   
PhD Environmental Engineering, Fulton Schools of Engineering, 3.79 GPA

Arizona State University, Tempe, Arizona **2008-12**

B.S. Biology, Minor in French, Summa Cum Laude, 3.83 GPA

Barrett Honors College

Stanford University’s Venture Lab Finance program, completed with distinction **2012**

**Research & Work Experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Environmental Engineering PhD Student** (Dr. Francois Perreault, ASU/NEWT) **8/2015-current**

* Applying materials science/nanotechnology to improve:

-desalination by reverse osmosis (limit biofouling on membrane and spacers)

-desalination by carbon nanotubes

-desalination by solar membrane distillation for O&G frac water

**OHSU Bone & Mineral Department Researcher** (Dr. Eric Orwoll, OHSU) **2/2015-7/2015**

* Assisted in osteoporosis data compilation and organization; scribed for patients

**Freelance Financial Analyst (Seeking Alpha) 9/2014-current**

* Analyze select equities and financial trends (Goose Hollow Investments)

**Fulbright Poland: Jagiellonski University Medical School** (Dr. Tomasz Brzostek, UJ) **9/2013-6/2014**

* Taught English to medical school professors and physics PhD students
* Researched Poland’s public health system

**Civil Engineering Researcher** (Dr. Kamil Kaloush, ASU) **8/2012-12/2012**

* Tested thermal conductivity and specific heat properties of concrete and asphalt
* Organized, evaluated, and presented the data to supervisor on a bimonthly basis

**Leadership, Awards & Volunteerism \_\_\_\_\_\_\_\_\_\_\_**

* President of ASU club Graduate Students for the Environment **2017**
* Sustainable Nanotechnology Organization scholarship winner **2017**
* WateReuse Arizona scholarship winner **2016**
* 1st place WateReuse Arizona Symposium poster contest **2016**
* Volunteer at Tempe, AZ Water Science Career Day **2016**
* Dean’s Fellowship ASU Fulton School of Engineering **2015-19**
* Volunteer at Central City Concern Old Town Clinic (Portland, OR) **2014-15**
* Fulbright English Teaching Assistantship to Poland **2013-14**
* Phi Beta Kappa Honors Society **2011**

**Publications & Presentations \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* AZ Water Conference: “Development of anti-adhsive spacers to reduce fouling and **2017**

Improve cleaning of reverse osmosis modules”

* Soroush, A., Rice, D., Rahaman, M., Perreault, F. Antimicrobial **2016**

properties of graphene nanomaterials: mechanisms and applications. Invited book

chapter in: *The paradigm of graphene-based materials in medicine & environment*.

Editors: G. Goncalves, P. Marques, M. Vila; Springer-Verlang Germany.

* Piper, B., Rice, D.Z., et al. Executive function on the Psychology Experiment Building **2012**

Language tests. Journal of Behavioral Research Methods 2012, 44 (1), 110-123