Amanda N. Quay

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EDUCATION:

Yale University, New Haven, CT.
Pursuing Master's degree in Environmental Engineering, expected May 2017
-Coursework includes biological processes, policy modeling, water chemistry
Stanford University, Stanford, CA.
B.S.(H.) Chemical Engineering Honors with minor in Civil & Environmental Engineering, June 2016
-Coursework includes biochemical engineering, fluid mechanics, physical chemistry, heterogeneous catalysis, water resource engineering, wastewater treatment, Arabic, international security
-Chemical Engineering Honor's Thesis: quantifying the effects of wastewater pretreatment on reverse osmosis permeate flux decline; one of two students pursuing departmental Honors
-Cumulative GPA: 3.61/4.00

EXPERIENCE:

8/16 – present: **Research**, Environmental Engineering, Elimelech Lab, Yale University, New Haven
-Researching water treatment using membrane separation technologies
-Member of 4-university conglomerate Engineering Research Center (ERC)

2/14 – 6/16: **Research**, Environmental Engineering, Mitch Lab, Stanford University, Stanford
-Conducted research on disinfectant by-product reaction pathways (paper published)
-Independent study for honor's thesis, with implications in wastewater recycling

9/15 – 6/16: **Public Relations Officer,** American Institute of Chemical Engineers, Stanford
-Organize faculty lunches to connect undergraduates with mentors on a deeper level
-Expand corporate sponsorship, facilitate student connections with industry leaders

12/14 – 1/15: **Analysis Intern**, Central Intelligence Agency, Washington DC
-Created requested technical document in anticipation of policymakers' future needs
-Synthesized data and briefed senior scientists for pertinent R&D planning

6/14 – 9/14: **Engineering Intern**, Central Intelligence Agency, Washington DC
-Independently designed and completed research study for developing materials
-Researched and presented on high-priority topics, driving technology development
-Translated Arabic scientific works; content beyond other Arabic linguists' expertise

6/13 – 9/13: **Critical Language Scholar**, Department of State, Amman
-Completed third academic year of Standard Arabic; studied Jordanian dialect
-Volunteer at Science League; guided science projects for Syrian refugee youth

5/12 – 8/12: **National Security Language Initiative Scholar**, Department of State, Rabat
-Completed first academic year of Modern Standard Arabic; studied Moroccan dialect
-Volunteered at retirement home in Rabat

9/10 – 5/12: **Research**, Analytical Chemistry, Acree Lab, University of North Texas, Denton
-Co-published seven papers (2011-2014) for ongoing solubility research
-Conducted independent research on toxicology of hospital wastewater

ADDITIONAL INFORMATION:

Tung Memorial Fellowship, 2016 to work at a science education outreach N.G.O. in Jordan
Stanford CEE VPUE Student Grant for Research, 2015
Stanford VPUE Minor Grant for Independent Research, 2015
AIChE Chemical Engineering Regional Conference, Student Research Competition, 3rd place, 2014
AIChE Chemical Engineering National Conference, Student Research Presenter, 2013
Barry M. Goldwater Scholar, 2012
Intel Science Talent Search Competition: Semifinalist, 2012
Stanford Lightweight Crew Team (2012-2015): athlete (National Champions 2013, 2nd overall 2014)

Reading/Speaking Proficiency in Arabic; Reading Proficiency in French
Proficiency in MATLAB, Microsoft Word, Powerpoint, Excel, Java; Basic skills in Mathematica, SPSS