**Robert Matthew Jones**

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| **15241 West Coolidge Street****Goodyear, AZ 85395** | **(602) 206-7456****Rmj3@email.arizona.edu** |
| **Education** | **The University of Arizona, Tucson Arizona BS Dec 2012** **Environmental Science: Soil Science Focus**  **Magna Cum-Laude,** GPA: 3.87 |
| **Related Course Work** | * Introduction to Soil Science
* Soil Morphology
* Soil Nutrition and Fertility
* Analytical Chemistry Laboratory
* Soil and Water Chemistry
 | * Sustainable Management of Arid Lands and Salt Affected Soils
* Plant Biology
* Introduction to Agronomy
* Global Change
* General Soil Laboratory
* Soil Physics Laboratory
* Microbiology
* Microbiology Lab
* Organic Chemistry
 | * Soil Physics
* Irrigation Engineering
* Natural Resource Economics
* Physical Geology
* Introduction to Microbial and Cellular Biology
* Pollution Science
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| **Research and Teaching Experience****Research and Teaching Experience Continued** | ***The University of Arizona: Soil, Water, and Environmental Science Department* Lead Microbial Ecology Lab Technician: June 2012-Present*** For: Thawing permafrost microbiology & global change project
* Assisted in the collection of peat samples from field site
* Helped develop protocols for protein extractions from challenging permafrost peat soils
* Preformed nucleic acid and protein extractions on diverse soils
* Prepared and analyzed protein and nucleic acid gels
* Analyzed large next-generation sequencing datasets of 16S rRNA amplicons, metagenomic and metaproteomic data using a variety of informatic platforms
* Trained and supervised undergraduate students
* Contributed to presenting and writing up methods and data for talks, posters, and journal articles
* Operated and maintained Nanodrop spectrophotometer
* Organized sample shipping, receiving, and records

***The University of Arizona: Physics and Atmospheric Sciences Department*****NASA Space Grant Intern: Aug 2012-Present*** For: Wind Blown Dust Characterization Program
* Participated in field sampling excursions throughout Arizona
* Set up and operated TSP and MOUDI aerosol filtering apparatus
* Performed polar and nonpolar organic aerosol extractions
* Operated and maintained a GC/MS and Ion Chromatograph

**NRCS:** Tucson, AZ**Lead Soils Lab Technician: Dec 2010-May 2012*** **For: Rapid Soil Carbon Assessment Project**
* Sorted, organized, processed, and recorded over 4000 soil samples
* Classified soils according to Tucson Soil Survey Taxonomic system, developed and maintained sample database
* Trained and supervised new interns
* Operated Visible Near Infrared Spectrometer to analyze soil samples

***The University of Arizona: Soil Water and Environmental Science Department* Teaching Assistant**: **Aug-Dec 2011*** For: Introduction to Soil Science, taught Dr. Jeffery Silvertooth
* Developed and reviewed exam material
* Graded exams and quizzes
* Proctored exams

***USNPS: Catoctin Mountain National Park,*** *Thurmont, MD****Conservation Corps Assistant Leader*:** June 2010-August 2010* Educated Corps members and the general public on environmental issues
* Performed resource management duties including; water quality tests, air quality tests, invasive species control, and rehabilitation of habitats.
* Analyzed the impact of invasive species on the native vegetation as well as tracking their growth via GPS and GIS
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|  | **Santa Cruz Valley Heritage Alliance:** Tucson, AZ***Local Growers Directory Intern*:** August 2008-May 2009* Networked and connected local growers and producers in the Santa Cruz area.
* Assisted in the creation of a directory composed of local producers and farmers markets
* Educated the public on the value of the Santa Cruz Valley and local produce
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| **Other Proficiencies**  | * Soil classification
* Leadership and youth education
* Research and Data Analysis
 | * Database editing, formatting, and entry
* Project Management
* Public speaking and education
 | * Microsoft Office Software specially Excel
* Impeccable person to person relations
* Logistical planning and organization
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| **Laboratory and Technical Skills** | * Preparing standard solutions
* Weak acid and base titration
* Redox titration
* EDTA titrations
* Basic JAVA programming
* QIIME Analysis Software
 | * Operating VNIR Spectrometer
* Operating UV-Vis Spectrometer
* Operating a Gas Chromatographer
* Protein and Nucleic Acid extractions
* Operating a Nanodrop Spectrophotometer
* Protein and nucleic acid gel preparation and staining
* Gel Electrophoresis
 | * Efficient cleaning and preparation of laboratory equipment
* Operating an autoclave
* Laboratory reports and technical writing
* MEGAN Software
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| **Honors and Awards** | * Dean’s List With Distinction Fall 2012
* NRCS Employee Achievement Award 2011
* Dean’s List Fall 2011
* Dean’s List Spring 2011
* Dean’s List With Distinction Fall 2010

Dean’s List With Distinction Spring 2010 | * Dean’s List Fall 2009
* Dean’s List Spring 2009

Dean’s List With Distinction 2008 |
| **Papers, Presentations, and Posters** | *Poster*: **RM Jones\***, E-H Kim\*, BJ Woodcroft, M Shah, G Tyson, N Verberkmoes, VI Rich. “Optimizing Metaproteomic Methods to Capture Natural Microbial Community Expression”. Presented at the American Society of Microbiology Meeting, Denver, Colorado, May 2013*Poster:* Eun-Hae “EK” Kim, Ben J. Woodcroft, Rhiannon Mondav, Carmody K. McCalley, **Robert M. Jones**, et al. “Microbial Mediators of carbon fate in thawing permafrost: Connecting microbial activity to geochemistry across an *in situ* thaw gradient”. Presented at the American Society of Microbiology Meeting, Denver, Colorado, May 2013*Presentation:* **RM Jones\*,** KP Rine, MR Russel, EA Betterton. “Methods Optimization for the Extraction of Organic Dust Contaminants”. Presented at the Annual NASA Space Grant Symposium, Phoenix, Arizona, April 2013*Poster:* Eun-Hae “EK” Kim, Ben J. Woodcroft, Carmody K. McCalley Suzanne Hodgkins, **Robert M. Jones**, et al.“Microbial carbon cycling across a natural permafrost thaw gradient via biogeochemistry and metaproteomic-inferred microbial activity”. Presented at the American Geophysical Union , San Francisco, California, December 2012 |
| **References** | * **Dr. Virginia Rich:** Assistant Professor: Dept. of Soil, Water and Environmental Science: SWES Microbial Ecology Lab

University of Arizona, 309 Saguaro Hall, Tucson, AZ 85721vrich@email.arizona.edu 520-621-3670 (Office) * **Dr. Eun-Hae Kim:** Dept. Soil, Water, and Environmental Science: SWES Microbial Ecology Laboratory

University of Arizona, 301 Saguaro Hall, Tucson, AZ 85721eunhaekim@gmail.com* **Dr. Jeffrey Silvertooth:** Professor and Associate Dean and Director, Economic Development and Extension: Dept. Soil, Water, and Environmental Science

University of Arizona, 429 Shantz, Tucson, AZ 85721silver@ag.arizona.edu 520-621-7228 (office)eunhaekim@gmail.com 520-626-1309 (lab)* **William Svetlik**: Soil Survey Project Leader: Tucson Soil Survey

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