**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 |
| **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 | | | | | |
|  | **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 | | | | | |
| **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 |
| **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 |
| **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 85721  vrich@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 85721  eunhaekim@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 85721  silver@ag.arizona.edu 520-621-7228 (office)  eunhaekim@gmail.com 520-626-1309 (lab)   * **William Svetlik**: Soil Survey Project Leader: Tucson Soil Survey   2000 E Allen Rd., Bldg. 107, Tucson, AZ 85719  William.Svetlik@az.usda.gov | | | | | |