

RAVIN POUDEL

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Education

Doctor of Philosophy, Plant Pathology - University of Florida, Gainesville, FL Expected Graduation – 2018

Bachelor of Science, Biology (with Honors) - Truman State University, Kirksville, MO May 2012

Professional Experience

Graduate Research Assistant – University of Florida 2013 - Present

- Peer-reviewed journal article
 - **Poudel, R.**, Jumpponen, A, Schlatter, DC, Paulitz, TC, McSpadden Gardener, BB, Kinkel, LL, and Garrett, KA. Microbiome networks: A systems framework for identifying candidate microbial assemblages for disease management. *Phytopathology* 106:1083-1096, 2016. [**Downloaded over 2500 times as of April 2017**]
- Abstracts
 - **Poudel, R.**, Meyer, L., Jumpponen, A., Kennelly, M., Rivard, C., Cordova, B., Brisbane, J. and Garrett, K. Root and rhizosphere microbiome responses to new tomato rootstock systems. *Phytopathology*, Vol. 106, No. 12, pp. 14-14, 2016.
 - **Poudel, R.**, Jumpponen, A. and Garrett, K. Exploration of phyllosphere fungal communities of *Quercus macrocarpa* using network analysis. *Phytopathology*, Vol. 104, No. 11, pp. 93-93, 2014.
- In preparation (available upon request)
 - **Poudel et. al.** Inferring root-associated microbial interactions in the grafted tomato system with network models. 201x
 - **Poudel et. al.** Defining the root and the rhizosphere microbiome associated with grafted tomato plants. 201x

Research Assistant – Harvard University (Massachusetts General Hospital) October 2012 - May 2013

- Peer-reviewed journal article
 - Sabbatino F, Fusciello C, Somma D, Pacelli R, **Poudel R**, Pepin D, Leonardi A, Carlomagno C, Della Vittoria Scarpati G, Ferrone S and Pepe S. Effect of p53 activity on the sensitivity of human glioblastoma cells to PARP-1 inhibitor in combination with topoisomerase I inhibitor or radiation. *Cytometry*, Vol 85-11, 953-961, 2014.

Summer Undergraduate Research Student - University of Pittsburgh June 2011 - July 2011

- Abstract
 - Lowe, D., Bose, A., **Poudel, R.**, Taylor, J. & Storkus, W. Combinational dasatinib and dendritic cell-based therapy improves therapeutic protection against melanoma growth. *Journal of Immunology*, 188, 2012.

Undergraduate Research Student - Truman State University August 2008 - May 2012

- Peer-reviewed journal articles
 - D Bokati, J Herrera, **R Poudel**. Soil influences colonization of root-associated fungal endophyte communities of Maize, Wheat, and Their Progenitors. *Journal of Mycology*. 1-9, 2016.
 - Herrera, J., **Poudel, R.** & Bokati, D. Assessment of root-associated fungal communities colonizing two species of tropical grasses reveals incongruence to fungal communities of North American native grasses. *Fungal Ecology*, 6, 65-69, 2013.
 - J Herrera, **Poudel R**, Nebel KA, Collins SL. Precipitation increases the abundance of some groups of root-associated fungal endophytes in a semiarid grassland. *Ecosphere* 2(4):art50, 2011.
 - J Herrera, **Poudel, R (equal author)**, Khidir, HH. Molecular characterization of coprophilous fungal communities reveals sequences related to root-associated fungal endophytes. *Microbial Ecology*, Vol 61-2, 239-244, 2011.

Technical Skills

- R, Python, Bash Scripting, High Performance Computing, SAS, JAVA, Net Logo, NOVA, Network Analysis, Tableau, MOTHUR, QIIME

Professional / Community services

- Treasurer (Nepal Student Association – UF), Member (American Phytopathological Society)