

Kristen M. DeAngelis, PhD
CURRICULUM VITAE

Associate Professor, University of Massachusetts Amherst, Department of Microbiology
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PROFESSIONAL APPOINTMENTS

2018 to present **Associate Professor**, Microbiology Department, UMass Amherst, USA
2011 to present **Assistant Professor**, Microbiology Department, UMass Amherst, USA
2010-2011 **Postdoctoral Research Associate**, Microbial Communities Group, Deconstruction Division, Joint BioEnergy Institute, Emeryville CA USA
2007-2010 **Seaborg Postdoctoral Fellow**, Ecology Department, Lawrence Berkeley National Laboratory, Berkeley CA USA
2006 **Postdoctoral Research Associate**, Department of Ecosystem Sciences, Policy and Management (ESPM), University of California, Berkeley CA USA

EDUCATION

2000-2006 PhD, Microbiology, University of California, Berkeley. "Bacterial quorum sensing and microbial community structure as control points in rhizosphere nitrogen cycling."
1993-1997 BS, Biology, Harvard University, Cambridge, Massachusetts

AWARDS and HONORS

2020 Harvard Forest Bullard Fellow, Petersham MA
2019 Public Engagement Project Faculty Fellow, University of Massachusetts, Amherst MA
2017-2019 Elected Member, User Executive Committee, Environmental Molecular Sciences Lab
2013-2016 Elected Officer of the Microbial Ecology Section of the Ecological Society of America
2013 Workshop on Sustainable Bioenergy, Department of Energy, Biological and Environmental Research (BER), Germantown, Maryland USA
2007-2010 Glenn T. Seaborg Postdoctoral Fellow
2006 Best Student Paper, Soil Ecology Section, Ecological Society of America
2006 Raymond W. Sarber Award for Academic Achievement in Microbiology, American Society for Microbiology
2004 National Science Foundation Doctoral Dissertation Improvement Award
2003-2005 Environmental Protection Agency Science-to-Achieve-Results (EPA STAR) Fellow

Research Articles in Refereed Journals (*10 most recent*)

Chaput, Gina, Andrew F. Billings, Lani DeDiego, Roberto Orellana, Joshua N. Adkins, Carrie D. Nicora, Young-Mo Kim, Rosalie Chu, Blake Simmons, and Kristen M. DeAngelis. "Lignin induced iron reduction by novel sp., *Tolomonas lignolytic* BRL6-1." *PLoS one* 15, no. 9 (2020): e0233823.
Domeignoz-Horta, Luiz A., Grace Pold, Xiao-Jun Allen Liu, Serita D. Frey, Jerry M. Melillo, and Kristen M. DeAngelis. "Microbial diversity drives carbon use efficiency in a model soil." *Nature communications* 11, no. 1 (2020): 1-10. Pold G, Sistla SA, DeAngelis KM. Metabolic tradeoffs and heterogeneity in microbial responses to temperature determine the fate of litter carbon in simulations of a warmer world. *Biogeosciences*. 2019 Dec 15;16(24).
DeAngelis, Kristen M., and Grace Pold. "Genome Sequences of Frankineae sp. Strain MT45 and *Jatrophihabitans* sp. Strain GAS493, Two Actinobacteria Isolated from Forest Soil." *Microbiology Resource Announcements* 9, no. 38 (2020). Steen, Andrew D., Alex Crits-Christoph, Paul Carini,

- Kristen M. DeAngelis**, Noah Fierer, Karen G. Lloyd, J. Cameron Thrash. "High proportions of bacteria and archaea across most biomes remain uncultured." *The ISME Journal*, (2019).
- Chaput, Gina, Jacob Ford^{UG}, Lani DeDiego^{HS}, Achala Narayanan^{UG}, Wing Yin Tam^{UG}, Meghan Whalen^{UG}, Marcel Huntemann, Alicia Clum, Alex Spunde, Manoj Pillay, Krishnaveni Palaniappan, Neha Varghese, Natalia Mikhailova, I-Min Chen, Dimitrios Stamatis, T.B.K. Reddy, Ronan O'Malley, Chris Daum, Nicole Shapiro, Natalia Ivanova, Nikos C. Kyrpides, Tanja Woyke, **Kristen M. DeAngelis**. "Complete Genome Sequence of *Serratia quinivorans* Strain 124R, a Facultative Anaerobe Isolated on Organosolv Lignin as a Sole Carbon Source." *Microbiol Resour Announc* 8, no. 18 (2019): e00409-19.
- Domeignoz Horta, Luiz, Kristen M. DeAngelis*, Grace Pold. (2018) "Draft Genome Sequence of Acidobacteria group 1 Acidipila sp. EB88 isolated from forest soil." *Microbiology Resource Announcements*, in press, MRA01464-18R1.
- Pold, Grace, Erin M. Conlon, Marcel Huntemann, Manoj Pillay, Natalia Mikhailova, Dimitrios Stamatis, T.B.K. Reddy, Chris Daum, Nicole Shapiro, Nikos Kyrpides, Tanja Woyke, **Kristen M. DeAngelis**. (2018) "Genome sequence of *Verrucomicrobium* sp. strain GAS474, a novel bacterium isolated from soil." *ASM Genome Announcements*, 6.4 (2018): e01451-17.
- Pold, Grace, Marcel Huntemann, Manoj Pillay, Natalia Mikhailova, Dimitrios Stamatis, T.B.K. Reddy, Chris Daum, Nicole Shapiro, Nikos Kyrpides, Tanja Woyke, **Kristen M. DeAngelis**. (2018) "Draft genome sequences of three strains of a novel Rhizobiales species isolated from forest soil." *ASM Genome Announcements*, in press.
- Jerry M Melillo, Serita D Frey, **Kristen M DeAngelis**, William Werner, Michael Bernard, F P Bowles, Grace Pold, Melissa A. Knorr, A Stuart Grandy (2017) "Long-term Pattern and Magnitude of Soil Carbon Feedback to the Climate System in a Warming World." *Science* 358 (6359): 101-105. doi:10.1126/science.aan2874.
- Orellana, Roberto, Gina Chaput, Lye Meng Markille, Hugh Mitchell, Galya Orr, **Kristen M. DeAngelis***. "Multi-time series RNA-Seq analysis of *Enterobacter lignolyticus* SCF1 during growth in lignin-amended medium." *PLoS ONE*, 12(10): e0186440. <https://doi.org/10.1371/journal.pone.0186440>.
- Pold, Grace, Stuart Grandy, Jerry Melillo, **Kristen M DeAngelis*** (2017) "Changes in substrate availability drive carbon cycle response to chronic warming." *Soil Biology and Biochemistry*, 110: 68-78. DOI: 10.1016/j.soilbio.2017.03.002

SYNERGISTIC ACTIVITIES

1. **National Research Mentoring Network Trained Instructor**. Trained at UMass to facilitate trainings developed by the National Research Mentoring Network (NRMN, <https://nrmnet.net/>).
2. **Evidence-based STEM Teaching**. Completed the online course ([STEMTeachingCourse.org](https://stemteachingcourse.org)) in 2017, and developed an interactive seminar presentation entitled "Evidence-based STEM Undergraduate Teaching" (<https://wordpress.com/block-editor/post/kristendeangelis.net/271>).
3. **Bioinformatics training Instructor**. To provide students with programming literacy in the languages unix, R, and python, including hosting a Software Carpentry Workshop at UMass.
4. **Faculty sponsor to the NASA Student Spaceflight Experiment Program (SSEP)**. In collaboration with Montachusett Regional Vocational Technical High School, we work with high school students in designing experiments, writing proposals, and executing experiments.
5. **2019 Public Engagement Project Fellow**. Training to present research for better engagement with the community groups, policymakers, and practitioners.

PROFESSIONAL SOCIETIES

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| Since 2000 | American Society for Microbiology |
| Since 2002 | Ecological Society of America |
| Since 2002 | International Society for Microbial Ecology |

Last updated 9/25/20