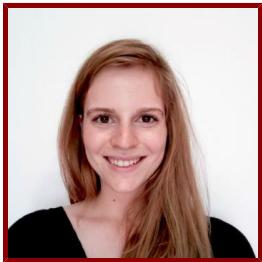


Stanford



Julie Pourtois

Ph.D. Student in Biology, admitted Autumn 2019

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on how environmental conditions affect the interaction between bacteriophages and their bacterial hosts, and their impact on disease. I use mathematical models, and collaborate with lab and field researchers to inform my models. My current study systems include bacterial infections in the lung of patients with cystic fibrosis, and abalone withering syndrome.

LAB AFFILIATIONS

- Giulio De Leo, De Leo Lab (9/1/2020)

Publications

PUBLICATIONS

- **Rapid assessment of changes in phage bioactivity using dynamic light scattering.** *PNAS nexus*
Dharmaraj, T., Kratochvil, M. J., Pourtois, J. D., Chen, Q., Hajfathalian, M., Hargil, A., Lin, Y. H., Evans, Z., Oromí-Bosch, A., Berry, J. D., McBride, R., Haddock, N. L., Holman, et al
2023; 2 (12): pgad406
- **Targeted deletion of Pf prophages from diverse *Pseudomonas aeruginosa* isolates impacts quorum sensing and virulence traits.** *bioRxiv : the preprint server for biology*
Schmidt, A. K., Schwartzkopf, C. M., Pourtois, J. D., Burgener, E., Faith, D. R., Joyce, A., Lamma, T., Kumar, G., Bollyky, P. L., Secor, P. R.
2023
- **Climatic, land-use and socio-economic factors can predict malaria dynamics at fine spatial scales relevant to local health actors: Evidence from rural Madagascar.** *PLOS global public health*
Pourtois, J. D., Tallam, K., Jones, I., Hyde, E., Chamberlin, A. J., Evans, M. V., Ihantamalala, F. A., Cordier, L. F., Razafinjato, B. R., Rakotonanahary, R. J., Tsirinomen'ny Aina, A., Solonaina, P., Raholiarimanana, et al
2023; 3 (2): e0001607
- **Modelling the effect of habitat and fishing heterogeneity on the performance of a Total Allowable Catch-regulated fishery** *ICES JOURNAL OF MARINE SCIENCE*
Pourtois, J. D., Provost, M. M., Micheli, F., De Leo, G. A.
2022
- **Filamentous Bacteriophages and the Competitive Interaction between *Pseudomonas aeruginosa* Strains under Antibiotic Treatment: a Modeling Study.** *mSystems*
Pourtois, J. D., Kratochvil, M. J., Chen, Q., Haddock, N. L., Burgener, E. B., De Leo, G. A., Bollyky, P. L.
2021: e0019321
- **Pf Bacteriophage and Their Impact on *Pseudomonas* Virulence, Mammalian Immunity, and Chronic Infections.** *Frontiers in immunology*
Secor, P. R., Burgener, E. B., Kinnersley, M. n., Jennings, L. K., Roman-Cruz, V. n., Popescu, M. n., Van Belleghem, J. D., Haddock, N. n., Copeland, C. n., Michaels, L. A., de Vries, C. R., Chen, Q. n., Pourtois, et al

2020; 11: 244

● **Impact of Lytic Phages on Phosphorus- vs. Nitrogen-Limited Marine Microbes.** *Frontiers in microbiology*

Pourtois, J., Tarnita, C. E., Bonachela, J. A.

2020; 11: 221