

# Alexander N. Pillai

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CONTACT	anpillai@uchicago.edu	
EDUCATION	<b>University of Chicago</b> <i>Doctor of Philosophy in Ecology &amp; Evolution</i> <ul style="list-style-type: none"><li>• Advisor: Sarah Cobey</li></ul>	Chicago, Illinois 2023 – Present
	<b>University of Florida</b> <i>Bachelor of Science in Microbiology &amp; Cell Sciences</i>	Gainesville, Florida 2017 – 2021
RESEARCH EXPERIENCE	<b>University of Florida</b> <i>Research Assistant (PI: Thomas Hladish)</i> <ul style="list-style-type: none"><li>• Agent-based modeling of virulence and disease outcomes of various pathogens (including dengue and COVID-19) and forecasts of COVID-19 in Florida</li></ul>	Gainesville, Florida 2019 – 2023
	<b>University of Florida</b> <i>Undergraduate Student Research Assistant (PI: Julie Maupin-Furlow)</i> <ul style="list-style-type: none"><li>• Archaeal genetic responses to environmental stress</li></ul>	Gainesville, Florida 2017 – 2019
WORK EXPERIENCE	<b>Summer Institute in Statistics and Modeling in Infectious Diseases</b> <i>Teaching Assistant for Contact Network Epidemiology module</i>	Seattle, Washington July 2020, 2021, 2022, 2023

PEER-REVIEWED \* indicates equal contributions  
PUBLICATIONS

C. J. Henry\*, **A. N. Pillai\***, J. A. Lednicky, J. G. Morris, and T. J. Hladish, “Ecology and public health burden of Keystone virus in Florida”, [Epidemics \*\*39\*\*, 100555 \(2022\)](#).

M. Gomez, W. Leung, S. Dantuluri, **A. Pillai**, Z. Gani, S. Hwang, L. J. McMillan, S. Kiljunen, H. Savilahti, and J. A. Maupin-Furlow, “Molecular factors of hypochlorite tolerance in the hypersaline archaeon *haloferax volcanii*”, [Genes \*\*9\*\*, 562 \(2018\)](#).

PREPRINTS AND OTHER PUBLICATIONS

T. J. Hladish, **A. N. Pillai**, C. A. Pearson, K. B. Toh, A. Tamayo, A. Stoltzfus, and I. M. Longini Jr, “Evaluating targeted covid-19 vaccination strategies with agent-based modeling”, [medRxiv, 10.1101/2023.03.09.23285319 \(2023\)](#).

T. J. Hladish, **A. N. Pillai**, and I. M. Longini, “Updated projections for COVID-19 omicron wave in florida”, [medRxiv, 10.1101/2022.01.06.22268849 \(2022\)](#).

T. J. Hladish, **A. N. Pillai**, K. B. Toh, and I. M. Longini, “End-of-year projections for COVID-19 in florida”, [UF Emerging Pathogens Institute \(2021\)](#).

T. J. Hladish, **A. N. Pillai**, K. B. Toh, and I. M. Longini, “Projections for COVID-19 delta wave in florida”, [UF Emerging Pathogens Institute \(2021\)](#).

T. J. Hladish, **A. N. Pillai**, K. B. Toh, and I. M. Longini, “Projections for COVID-19 omicron wave in florida”, [UF Emerging Pathogens Institute \(2021\)](#).

K. Shea, R. K. Borchering, W. J. M. Probert, [and 75 others, including **A. N. Pillai** and T. J. Hladish], “COVID-19 reopening strategies at the county level in the face of uncertainty: Multiple models for outbreak decision support”, [medRxiv, 10.1101/2020.11.03.20225409 \(2020\)](#).

TECHNICAL SKILLS

Programming: C++, Python, R, Linux shell scripting, SQL, Vi, and  $\text{\LaTeX}$