

Jonah E. Einson

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EDUCATION	Columbia University: New York, NY <i>PhD Candidate:</i> Biomedical Informatics	Fall 2017 - Current
	University of Massachusetts: Amherst, MA <i>Bachelor of Science:</i> Biochemistry and Molecular Biology <i>Bachelor of Science:</i> Mathematics - Statistics Commonwealth Honors College	Fall 2013 - Spring 2017 <i>Cum Laude</i>
RESEARCH EXPERIENCE	Department of Systems Biology, Rabadan Lab, Columbia University <i>Rotation Student - Spring 2018</i> Investigated viruses in the peripheral T-Cell lymphoma microenvironment, through genomic signatures.	
	Department of Systems Biology, Vitkup Lab, Columbia University <i>Rotation Student - Fall 2017</i> Studied the ecological dynamics of the human microbiome.	
	Department of Food Science, Sela Lab, UMass Amherst <i>Fall 2014 - Spring 2017, including summers</i> Conducted independent research in microbial ecology, genomics, and food related human health.	
PUBLICATIONS	Jonah E. Einson* , Asha Rani*, Xiaomeng You, Clifton L. Randell, Allison A. Rodriguez, Tammy Barnaba, Mark K. Mammel, Michael L. Kotewicz, Christopher A. Elkins, David A. Sela, "A vegetable fermentation facility hosts distinct microbiomes reflecting the production environment," <i>Applied Environmental Microbiology</i> (Awaiting submission)	
	Xiaomeng You, Jonah Einson , Cynthia Lopez-Peña, Mingyue Song, Hang Xiao, Julian McClements, David Sela, "Food-grade cationic antimicrobial ϵ -polylysine transiently alters the gut microbial community and predicted metagenome function in CD-1 mice," <i>npj Science of Food</i>	
CAPSTONE THESIS	J. Einson , X. You, C. Randell, A. Rodriguez, M. Kotewicz, C. Elkins, M. Mammel, C. Tartera, T. Barnaba, A. Kinchla, D. Sela, "The Environmental Microbiomes of an Industrial Food Fermentation Facility," Undergraduate Research Conference, University of Massachusetts, Amherst MA, April 2017	

SELECTED POSTERS

J. Einson, X. You, C. Randell, A. Rodriguez, M. Kotewicz, C. Elkins, M. Mammel, C. Tartera, T. Barnaba, A. Kinchla, D. Sela, "The Environmental Microbiomes of an Industrial Food Fermentation Facility," Strategic Research Alliance Exposition, University of Massachusetts, Amherst MA, April 2017

J. Einson, X. You, C. Randell, A. Rodriguez, M. Kotewicz, C. Elkins, A. Kinchla, D. Sela, "The Use of Next-Generation Sequencing to Study Microbial Ecology in Industrial Food Production," CAFE Summer Scholars Poster Session, Amherst MA, September 2016

J. Einson, X. You, H. Klein, A. Rodriguez, C. Randell, M. Bartlett, D. Sela, "Phyllosphere Microbial Ecology of Succulent Plants in a Greenhouse Environment," ASM Microbe Meeting, Boston MA, June 2016

TEACHING EXPERIENCE

Teaching Assistant
Fall 2016

Biochem 526
Amherst, MA

Assisted running a senior biochemistry lab course. Responsibilities included conducting prep work, aiding in experimental design, and reviewing students' writing.

Supplemental Instruction Leader
Spring 2014 - Fall 2016

UMass Learning Resource Center
Amherst, MA

Attended classes and held biweekly review sessions for Multivariate Calculus.

AWARDS AND SCHOLARSHIPS

CAFE Summer Scholars Program *Summer 2016* A program directed by the Center for Agriculture, Food, and the Environment at UMass that provides students an opportunity to conduct research in a mentor's lab for the summer.

American Society for Microbiology Undergraduate Research Fellowship

Summer 2015 A national fellowship awarded to an undergraduate wishing to pursue a Ph.D. Included poster presentation and capstone program at the ASM Microbe Meeting, June 2016.

Research Assistant Fellowship *Spring 2016, Fall 2016* A grant presented by Commonwealth Honors College, to give a student the opportunity to explore independent research under the guidance of a faculty sponsor.

College of Natural Sciences Dean's List *All semesters* Award for students who receive a cumulative GPA of 3.5 or greater.

PROFESSIONAL MEMBERSHIPS

American Medical Informatics Association

Phi Kappa Phi Honors Society

American Society for Microbiology

**SKILLS AND
BACKGROUND**

Laboratory: General Biology Lab Techniques, DNA Extraction, PCR, etc.

Computer Programs: Microsoft Word, Power-point, Excel, Inkscape, L^AT_EX

Coding Languages / Environments: R, Python, Perl, Unix

Bioinformatics: Extensive experience implementing open source analysis packages on a shared computing cluster, and interpreting results

**OTHER
ACTIVITIES**

Group Leader for Teen Treks: *Summer 2017* Led bike trips for small groups of high school aged teens. Responsibilities included planning activities, navigation, budgeting, bike mechanics, etc.