

# Albert C. Vill

Institutional email → acv46@cornell.edu  
Personal email → albertcvill@gmail.com  
Twitter → @\_AlbertVill

## Education

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Bachelor of Science, Magna Cum Laude — Gettysburg College  
*Biochemistry and Molecular Biology major, 3.70 GPA*  
*Lincoln Scholar – highest merit-based scholarship awarded* Graduated May 2016

## Research Experience

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PhD Candidate – Lab of Dr. Ilana Brito, Cornell University Spring 2017 – present  
*Designing and implementing methods to quantify changes in the composition and function of the human gut microbiome during perturbation and disease*

HHMI Summer Research Fellow – Gettysburg College Summers, 2014 & 2015  
*Characterizing soil bacteriophages by host range screens and comparative genomics*

## Publications

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Kent AG, **Vill AC**<sup>†</sup>, Shi Q, Satlin MJ, Brito IL. Widespread transfer of mobile antibiotic resistance genes within individual gut microbiomes revealed through bacterial Hi-C. *Nat Commun.* 2020 Sep 1;11(1):4379. 2020  
<sup>†</sup> *co-first author*

Delesalle VA, **Vill AC**, Tomko BE, Boas K, Burton EA, Guffey AA, Loney R, Simões MS, Tanke NT, Krukonis GP. Comparative genomics of fourteen novel Siphoviridae phages of *Bacillus subtilis*, including three phages closely related to SPP1. In preparation

Delesalle VA, Tanke NT, **Vill AC**, Krukonis GP. Testing hypotheses for the presence of tRNA genes in mycobacteriophage genomes. *Bacteriophage.* 2016 Aug 5;6(3):e1219441. 2016

Pope WH, Bowman CA, Russell DA, Jacobs-Sera D, Asai DJ, Cresawn SG, Jacobs WR, Hendrix RW, Lawrence JG, Hatfull GF; **Science Education Alliance Phage Hunters Advancing Genomics and Evolutionary Science**<sup>‡</sup>; Phage Hunters Integrating Research and Education; Mycobacterial Genetics Course. Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. *eLife.* 2015 Apr 28;4:e06416. 2015  
<sup>‡</sup> *consortium member, data contributor*

## Honors and Awards

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Seed Grant Recipient, Genomics Innovation Hub 2020

Distinguished Scholar, Cornell Center for Vertebrate Genomics 2019

Honorable Mention, NSF Graduate Research Fellowship 2018

Herzog Teaching Fellow, Gettysburg College 2015

HHMI Summer Research Fellow, Gettysburg College 2014 & 2015