

# Michael Orlitzky


## Curriculum Vitae


### EDUCATION


- 2009–2010 **Applied Mathematics Lab**  
*Towson University*
- 2009 **B.S. Mathematics (Cum Laude)**  
*Towson University*
- 2012 **M.S. Applied and Industrial Mathematics**  
*Towson University*
- 2017 **Ph.D. Applied Mathematics**  
*UMBC*


### PUBLICATIONS

- 2016 **An improved bound for the Lyapunov rank of a proper cone**  
*M. Orlitzky and M.S. Gowda. Optimization Letters, 10:11–17.*
- 2017 **The Lyapunov rank of an improper cone**  
*M. Orlitzky. Optimization Methods and Software. 32(1):109–125.*
- 2018 **Lyapunov rank of polyhedral positive operators**  
*M. Orlitzky. Linear and multilinear algebra. 66(5):992–1000.*
- 2018 **Positive and Z-operators on closed convex cones**  
*M. Orlitzky. Electronic Journal of Linear Algebra, 34:444–458.*
- 2020 **When a maximal angle among cones is nonobtuse**  
*M. Orlitzky. Computational and Applied Mathematics, 39.*
- 2021 **Gaddum's test for symmetric cones**  
*M. Orlitzky. Journal of Global Optimization, 79(4):927–940.*
- 202x **On the symmetry of induced norm cones**  
*M. Orlitzky. Optimization (accepted).*
- 202x **Proscribed normal decompositions of Euclidean Jordan algebras**  
*M. Orlitzky. Mathematics of Operations Research (submitted).*
- 202x **Tight bounds on Lyapunov rank**  
*M. Orlitzky. Optimization Letters (accepted).*

 4401 Roland Avenue, Unit 308  
Baltimore, MD 21210

 1.410.960.1420

 michael@orlitzky.com

 <http://michael.orlitzky.com/>

### INDUSTRY EXPERIENCE

**Viabit, LLC** 2003–PRESENT  
*Chief of network operations*

Ensure the security and availability of servers, websites, email accounts, and infrastructure.

**Vordex, LLC** 2007–2009  
*Lead programmer*

Develop electronic Medicaid billing software.

**Gentoo Linux** 2013–PRESENT  
*Developer*

Maintain programming language, system administration, and email packages.

### TEACHING

FALL 2019 **MATH637: Advanced topics in operations research**  
*Towson University*

### MASTER'S STUDENTS

SPRING 2020 **Jeffrey Cavanagh**  
*Towson University*

FALL 2020 **Bryten Ives**  
*Towson University*

### AWARDS

2009 **Charlotte W. Newcombe scholarship**

2010 **Towson University undergraduate research award**

2010 **Fisher College of Science and Mathematics undergraduate research award**