

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.

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.

 4401 Roland Avenue, Unit 308
Baltimore, MD 21210

 1.410.960.1420

 michael@orlitzky.com

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

PRESENTATIONS

- 2010 **Optimization under uncertainty/risk**
14th Annual George Mason University Conference on Atmospheric Transport and Dispersion Modeling
- 2012 **Optimal recovery of differentiable functions by univariate splines**
Towson University
- 2014 **Introduction to Koecher cones**
UMBC Optimization Seminar
- 2014 **Lyapunov rank and perfect cones**
UMBC Optimization Seminar
- 2015 **Topological groups in optimization**
UMBC Optimization Seminar
- 2015 **The Lyapunov rank of an improper cone: algorithms**
UMBC Optimization Seminar
- 2015 **The Lyapunov rank of an improper cone: Lie algebra**
UMBC Optimization Seminar
- 2015 **The S-lemma**
UMBC Optimization Seminar
- 2016 **Lyapunov rank of polyhedral positive operators**
UMBC Optimization Seminar
- 2016 **Solving linear games with cone programs**
UMBC Optimization Seminar

AWARDS

- 2009 **Charlotte W. Newcombe scholarship**
- 2010 **Towson University undergraduate research award**
- 2010 **Fisher College of Science and Mathematics undergraduate research award**