

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.
- 2017 **Positive and Z-operators on closed convex cones**
M. Orlitzky (submitted).
- 2017 **Lyapunov rank of polyhedral positive operators**
M. Orlitzky. Linear and multilinear algebra (submitted).

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.

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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**