Michael Orlitzky
Curriculum Vitae

✍ Baltimore, MD
☎ 1.410.960.1420
✉ michael@orlitzky.com
↗ https://michael.orlitzky.com/

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
With M.S. Gowda. Optimization Letters, 10:11–17.

2017 The Lyapunov rank of an improper cone
Optimization Methods and Software. 32(1):109–125.

2018 Lyapunov rank of polyhedral positive operators
Linear and multilinear algebra. 66(5):992–1000.

2018 Positive and Z-operators on closed convex cones
Electronic Journal of Linear Algebra, 34:444–458.

2020 When a maximal angle among cones is nonobtuse
Computational and Applied Mathematics, 39.

2021 Gaddum's test for symmetric cones
Journal of Global Optimization, 79(4):927–940.

2022 On the symmetry of induced norm cones
Optimization 71(3):441–447.

2022 Proscribed normal decompositions of Euclidean Jordan algebras
Journal of Convex Analysis. 29(3):755–766.

2022 Tight bounds on Lyapunov rank
Optimization Letters, 16:723–728.

2022 Rank computation in Euclidean Jordan algebras
Journal of Symbolic Computation, 113:181–192.

PUBLICATIONS (CONT'D)

2024 Continuity of the conic hull
Journal of Convex Analysis, 31(1):255–264.

2024 Jordan automorphisms and derivatives of symmetric cones
Linear Algebra and its Applications (accepted).

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 system administration and mathematics 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

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