

Department of Mathematics and Statistics at UNM Publications

Compiled by María Cristina Pereyra

Papers published/accepted in 2019

1. **M. Blair*** and C. Sogge, *Logarithmic improvements in L^p bounds for eigenfunctions at the critical exponent in the presence of nonpositive curvature.* Inventiones mathematicae, 217 (2) 703–748 (2019). <https://doi.org/10.1007/s00222-019-00873-6>
2. **M. Blair***, C. Sogge and Y. Sire, *Quasimode, eigenfunction and spectral projection bounds for Schrödinger operators on manifolds with critically singular potentials.* To appear in Journal of Geometric Analysis, special issue—a memorial issue in honor of Eli Stein (published on Sep 30, 2019. Issue Date 2021).
<https://doi.org/10.1007/s12220-019-00287-z>
3. **A. Buium***, *Arithmetic Levi-Civita connection.* Selecta Math. New Ser. (2019) 25:12 (79 pages). <https://doi.org/10.1007/s00029-019-0464-0>
4. **J. H. Chaudhry***, **J. N. Shadid*****, and T. Wildey *A posteriori analysis of an IMEX entropy-viscosity formulation for hyperbolic conservation laws with dissipation.* Applied Numerical Mathematics 135, 129–142 (2019).
<https://doi.org/10.1016/j.apnum.2018.08.010>
5. D. Bohra, **J. H. Chaudhry***, T. Burdyny, E. A. Pidko and W. A. Smith, *Modeling the Electrical Double Layer to Understand the Reaction Environment in a CO₂ Electrocatalytic System.* Energy Environ. Sci. **12**, 3380–3389 (2019).
<https://doi.org/10.1039/C9EE02485A>
6. **R. Christensen***, *Advanced Linear Modeling: Statistical Learning and Dependent Data.* Springer Texts in Statistics. Springer 2019.
7. I. O. Gallegos, **G. M. Dalton†**, A. M. Stohn, S. P. Koundinyan, K. R. Thompson, and E. S. Jimenez, *High-fidelity calibration and characterization of a spectral computed tomography system.* In Hard X-Ray, Gamma-Ray, and Neutron Detector Physics XXI (Vol. 11114, p. 111141G). International Society for Optics and Photonics (2019, October).
8. **J. H. Degnan***, *Meng and Kubatko (2009): Modeling hybridization with coalescence.* Theoretical Population Biology (accepted 2019).

9. **A. Ellison****, **K. A. Heinemann*****, **S. R. Lau***, *Distributional analysis of radiation conditions for the wave equation.* Rocky Mountain Journal of Mathematics 49 (1), 1–27 (2019). [10.1216/RMJ-2019-49-1-1](https://doi.org/10.1216/RMJ-2019-49-1-1)

10. Iraji, A., T. DeRamus, N. Lewis, M. Yaesoubi, J. Stephen, **E. B. Erhardt***, A. Belger, J. Ford, S. McEwen, D. Mathalon, B. Mueller, G. Pearlson, S. Potkin, A. Preda, J. Turner, J. Vaidya, T. van Erp, and V. Calhoun, *The spatial chronnectome reveals a dynamic interplay between functional segregation and integration.* Human Brain Mapping (40) (10). pdf, pp. 3058–3077 (2019). <https://doi.org/10.1002/hbm.24580>

11. L. Raz, K. Bhaskar, J. Weaver, S. Marini, Q. Zhang, J. F. Thompson, C. Espinoza, S. Iqbal, N. M. Maphis, L. Weston, L. O. Sillerud, A. Caprihan, **J. C. Pesko†**, **E. B. Erhardt***, G. A. Rosenberg *Hypoxia promotes tau hyperphosphorylation with associated neuropathology in vascular dysfunction.* Neurobiology of disease **126**, 124–136 (2019). <https://doi.org/10.1016/j.nbd.2018.07.009>

12. J.G. Katzman, C. R. Qualls, W. A. Satterfield, M. Kistin, K. Hofmann, **N. H. Greenberg***, R. Swift, G. D. Comerci Jr, R. Fowler, and S. Arora, *Army and Navy ECHO Pain Tele-mentoring Improves Clinician Opioid Prescribing for Military Patients: an Observational Cohort Study.* J Gen Intern Med. 2019 Mar;34(3):387–395.
<https://doi.org/10.1007/s11606-018-4710-5>

13. J. G. Katzman, **N. H. Greenberg***, M. Y. Takeda, and M. Moya Balasch, *Characteristics of Patients With Opioid Use Disorder Associated With Performing Overdose Reversals in the Community: An Opioid Treatment Program Analysis.* J Addict Med. 2019 Mar/Apr;13(2):131–138. <https://doi.org/10.1097/ADM.0000000000000461>

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15. A. Sood, D. Sigl, B. Tigges, O. Myers, **N. Greenberg***, and B. Wilson, *Assigning mentors for new HSC faculty hires: A preliminary policy evaluation (2019).* 12th Annual Mentoring Conference Proceedings (12th ed.). The Chronicle of Mentoring & Coaching, Vol. 2, October 2019, Special Issue 1, page 427–432.

16. **K. Heinemann*****, D. Appelö, D. Barber, **O. Beznosov†**, **J. Ellison****, *The Bloch equation for spin dynamics in electron storage rings: computational and theoretical aspects.* International Journal of Modern Physics A **34**, No. 36, 1942032 (2019).
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 24. **M. W. Hattab††**, C. S. Jackson and **G. Huerta***, *Analysis of Climate Sensitivity via High-Dimensional Principal Component Regression.* Communications in Statistics: Case Studies, Data Analysis and Applications, 5:4, 394–414 (2019). <https://doi.org/10.1080/23737484.2019.1670119>
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* Tenure stream

** Emeritus

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