Curriculum Vitae
Lenya Ryzhik

Address

Department of Mathematics,
Stanford University
Stanford CA 94305
e-mail: ryzhik@math.stanford.edu
Phone: 650-721-2113

Education

Stanford University, Stanford, CA
Ph.D. in Mathematics – 1997
Moscow Institute of Physics and Technology, Moscow, Russia
1986-1992 – equivalent of B.S. in Mathematical Physics

Experience

2009 – present, Professor, Department of Mathematics, Stanford University
2006 – 2009, Professor, Department of Mathematics, University of Chicago
2003 – 2006, Associate Professor, Department of Mathematics, University of Chicago
2000 – 2003, Assistant Professor, Department of Mathematics, University of Chicago
1997 – 2000, L.E. Dickson Instructor, Department of Mathematics, University of Chicago
Fall 1997, Postdoctoral Fellow, Mathematical Sciences Research Institute

Dissertation "Waves and Transport, Multiple Scattering of Waves in Random Medium"

Ph.D. Advisors Joseph B. Keller and George C. Papanicolaou

Research Interests Analysis and applied mathematics: applications of mathematical methods to physically interesting systems, applied analysis and partial differential equations, stochastic systems.

Grants and Fellowships

NSF grant DMS-9971742 "Radiative transport theory for waves", 1999–2002.
ONR grant "Time Reversal for Waves in Random Media", 2001–2004,
Alfred P. Sloan Research Fellowship 2002–2004
NSF grant DMS-0203537 "Propagation of Fronts and Waves in Complex Media", 2002–2005.
DARPA-ONR grant N00014-04-1-0224 "Time Reversal for Electromagnetic Waves in Random Media", 2004-2008.
NSF grant DMS-0604687 "The Kinetic Theory of Waves and Reactive-Diffusive Fronts", 2006-2009.
NSF FRG grant DMS-0854952 "Collaborative Research: Stochastics and Dynamics: Asymptotic problems", 2009-2012.

NSF grant DMS-0908507 "Collaborative Research: Waves and Fronts in Heterogeneous Media", 2009-2013.
AFOSR NSSEFF Fellowship, 2010-2015.
NSF grant DMS-1100754 "Proposal for a Five-Day Conference: Challenges for Nonlinear PDE and Analysis".
NSF grant "FRG: Collaborative Research: Singularities, mixing and long time behavior in nonlinear evolution", DMS-1158938, 2012-2015.
NSF grant DMS-1311903, "Waves, Particle Transport and Fronts in Heterogeneous Media"
BSF grant "Stochastic front propagation", 2015–2018.
NSF grant DMS-1613603 "Waves and fronts in heterogeneous media", 2016-2019.
ONR grant "Laser propagation in heterogeneous media and applications to off-axis reconstructions", 2017-2020.
NSF grant DMS-1910023 "Long time behavior for partial differential equations in random media", 2019-2022.
ONR grant N00014-22-1-2174 "Diffusion and learning models", 2022-2025.
NSF grant DMS-2205497 "Branching processes, random partial differential equations and applications", 2022-2025.

Publications and preprints

1. L. Ryzhik, E. Schulman, On the complete algebra of symmetries of integrable systems, Theor. Math. Phys. **95**, 1993, 387-392
2. L. Ryzhik, G. Papanicolaou, J. Keller, Transport equations for elastic and other waves in random media, Wave Motion, **24**, 1996, 327-370.
3. G. Papanicolaou, L. Ryzhik, J. Keller, Stability of the P to S energy ratio in the diffusive regime, Bulletin of the Seismological Society of America, **86**, 1996, 1107-1115
4. L. Ryzhik, G. Papanicolaou, J. Keller, Transport equations for waves in a half space, Communications in Partial Differential equations, **22**, 1997, 1869-1910.
5. G. Papanicolaou, L. Ryzhik Waves and transport, IAS/Park City Mathematics Series, Vol. 5, L. Caffarelli and Weinan E, eds., AMS, 1998, pp. 305-382.
6. A. Fannjiang, L. Ryzhik and G. Papanicolaou, Evolution of trajectory correlations in steady random flows, Recent Advances in Partial Differential Equations (R.Spigler, S.Venakides, eds.), AMS, 1997, 105-131.
7. G. Bal, A. Fannjiang, G. Papanicolaou and L. Ryzhik, Radiative transport in a periodic structure, Journal of Statistical Physics **95** (1/2):479-494, 1999.
8. G. Bal, J.B. Keller, G. Papanicolaou and L. Ryzhik, Transport theory for acoustic waves with reflection and transmission at interfaces, Wave Motion, **30**, 1999, 303-327.
9. G. Bal, G. Papanicolaou and L. Ryzhik, Diffusive energy scattering from weakly random surfaces, Journal of Mathematical Physics, **40**, 1999, 4813-4827.
10. G. Bal, G. Papanicolaou and L. Ryzhik, Probabilistic theory of transport processes with polarization, SIAM Journal of Applied Mathematics, **60**, 2000, 1639 - 1666
11. G. Bal and L. Ryzhik, Diffusion approximation of radiative transfer problems with interfaces, SIAM Journal of Applied Mathematics, **60**, 2000, 1887-1912.
12. P. Constantin, A. Kiselev, A. Oberman and L. Ryzhik, Bulk burning rate in passive - reactive

diffusion, Archive for Rational Mechanics, **154**, 2000, 53-91.
13. G. Bal, V. Freilikher, G. Papanicolaou and L. Ryzhik, Wave transport along surfaces with random impedance, Phys. Rev. B, **62**, 2000, 6228-6240.
14. A. Kiselev and L. Ryzhik, Enhancement of the traveling front speeds in reaction-diffusion equations with advection, Ann. de l'Inst. Henri Poincaré, C. Analyse non linéaire, **18**, 2001, 309–358.
15. A. Fannjiang and L. Ryzhik, Radiative Transfer of Sound Waves in a Random Flow: Turbulent Scattering and Mode-Coupling, SIAM Journal of Applied Mathematics, **61**, 2001, 1545-1577.
16. P. Constantin, A. Kiselev and L. Ryzhik, Quenching of flames by fluid advection, Communications in Pure and Applied Mathematics, **54**, 2001, 1320–1342.
17. A. Kiselev and L. Ryzhik, An upper bound for the bulk burning rate for systems, Nonlinearity, **14**, 2001, 1297-1310.
18. G. Bal and L. Ryzhik, Wave transport for a scalar model of the Love waves, Wave Motion, **36**, 2002, 49-66.
19. G. Bal and L. Ryzhik, Time reversal for classical waves in random media, Comptes rendus de l'Académie des sciences - Série I - Mathématique, **333**, 2001, 1041-1046.
20. G. Bal, G. Papanicolaou and L. Ryzhik, Radiative transport limit for the random Schrödinger equation, Nonlinearity, **15**, 2002, 513-529.
21. G.Bal and L. Ryzhik, Time reversal and refocusing in random media, SIAM Jour. Appl. Math., **63**, 2003, 1475-1498.
22. G. Papanicolaou, K. Sølna and L. Ryzhik, The parabolic wave approximation and time reversal, Matematica Contemporanea, **23**, 2002, 139-159.
23. G. Bal, G. Papanicolaou and L. Ryzhik, Self-averaging in time reversal for the parabolic wave equation, Stochastics and Dynamics, **2**, 2002, 507-531.
24. S. Mischler, B. Perthame and L. Ryzhik, Stability in a Nonlinear Population Maturation Model, M3AS (Mathematical Models and Methods in Applied Science), **12**, 2002, 1751-1772.
25. G. Papanicolaou, K. Sølna and L. Ryzhik, Statistical stability in time reversal, SIAM Jour. Appl. Math., **64**, 2004, 1133-1155
26. G. Bal, T. Komorowski and L. Ryzhik, Self-averaging of the Wigner transform in random media, Communications in Mathematical Physics, 2003, **242**, 81-135.
27. P. Constantin, A. Kiselev and L.Ryzhik, Fronts in reactive convection: bounds, stability and instability, Communications in Pure and Applied Mathematics, **56**, 2003, 1781-1803.
28. N. Vladimirova, P. Constantin, A. Kiselev, O. Ruchaiskiy and L. Ryzhik, Flame enhancement and quenching in fluid flows, Combustion Theory and Modeling, **7**, 2003, 487-508.
29. G. Bal and L. Ryzhik, Time splitting for wave equations in random media, Mathematical Modelling and Numerical Analysis (M2AN), **38**, 2004, 961-987.
30. B. Perthame and L. Ryzhik, Exponential decay for the fragmentation or cell-division equation, Journal of the Differential Equations, **210**, 2005, 155-177.
31. A. Novikov, G. Papanicolaou and L. Ryzhik, Boundary layers for cellular flows at high Péclet numbers, Communications in Pure and Applied Mathematics, **58**, 2005, 867–922.
32. G. Bal and L. Ryzhik, Time splitting for the Liouville equation in a random medium, Communications in Mathematical Sciences, **3**, 2004, 515–534.
33. G. Bal and L. Ryzhik, Stability of time reversed waves in changing media, Discrete and Con-

tinuous Dynamical Systems A, **12**, 2005, 793-815.
34. H. Berestycki, F. Hamel, A. Kiselev and L. Ryzhik, Quenching and propagation in KPP reaction-diffusion equations with a heat loss, Archive for Rational Mechanics and Analysis, **178**, 2005, 57–80.
35. P. Gordon, N. Vladimirova and L. Ryzhik, The KPP system in a periodic flow with a heat loss, Nonlinearity, **18**, 2005, 571–589.
36. H. Berestycki, P. Constantin and L. Ryzhik, Non-Planar Fronts in Boussinesq Reactive Flows, Annales de l'Institute Henri Poincaré, C. Analyse non linéaire, **23**, 2006, 407–437.
37. B. Perthame and L. Ryzhik, The quantum scattering limit for a regularized Wigner eq-uation, Methods and Applications of Analysis, **11**, 2004, 447–464.
38. A. Fannjiang, A. Kiselev and L. Ryzhik, Quenching of reaction by cellular flows, Geometric and Functional Analysis, **16**, 2006, 40–69.
39. A. Novikov and L. Ryzhik, Bounds on the speed of propagation of the KPP fronts in a cellular flow, Archive for Rational Mechanics and Analysis, **184**, 2007, 23–48.
40. T. Komorowski and L. Ryzhik, Diffusion in a weakly random Hamiltonian flow, Comm. Math. Phys., **262**, 2006, 277–323.
41. P. Gordon and L. Ryzhik, Traveling fronts in porous media: existence and a singular limit, Proceedings of the Royal Society of London Ser. A, **462**, 2006, 1965–1985.
42. N. Vladimirova, G. Weirs and L. Ryzhik, Flame capturing with an advection-reaction-diffusion model, Combustion Theory and Modeling, **10**, 2006, 727–747.
43. F. Hamel and L. Ryzhik, Non-adiabatic KPP fronts with an arbitrary Lewis number, Nonlinearity, **18**, 2005, 2881–2902.
44. T. Komorowski and L. Ryzhik, The stochastic acceleration problem in two dimensions, Israel Journal of Mathematics, **155**, 2006, 157–204.
45. P. Constantin, K. Domelevo, J.-M. Roquejoffre and L. Ryzhik, Existence of pulsating waves in a model of flames in sprays, Journal of the European Mathematical Society, **8**, 2006, 555–584.
46. G. Bal and L. Ryzhik, Wave field correlations in weakly mismatched random media, Stochastics and Dynamics, **6**, 2006, 301–328.
47. P. Constantin, A. Kiselev, L. Ryzhik and A. Zlatos, Diffusion and mixing in a fluid flow, Annals of Mathematics **68**, 2008, 643–674.
48. P. Constantin, M. Lewicka and L. Ryzhik, Traveling waves in 2D reactive Boussinesq systems with no-slip boundary conditions, Nonlinearity, **19**, 2006, 2605–2615.
49. T. Komorowski and L. Ryzhik, Passive tracer in a slowly decorrelating random flow with a large mean, Nonlinearity, **20**, 2007, 1215–1239.
50. G. Papanicolaou, L. Ryzhik and K. Solna, Self-averaging from lateral diversity in the Itô-Schrödinger equation, SIAM MMS, **6**, 2007, 468–492.
51. B. Perthame and L. Ryzhik, Moderate dispersion in scalar conservation laws, Communications in Mathematical Sciences, **5**, 2007, 473–484.
52. L. Ryzhik and A. Zlatos, KPP pulsating front speed-up by flows, Communications in Mathematical Sciences, **5**, 2007, 575–593.
53. P. Constantin, A. Novikov and L. Ryzhik, Relaxation in reactive flows, Geometric and Functional Analysis, **18**, 2008, 1145–1167.

54. T. Komorowski and L. Ryzhik, On asymptotics of a tracer advected in a locally self-similar, correlated flow, Asymptotic Analysis, **53**, 2007, 159 – 187.
55. B. Perthame, G. Nadin and L. Ryzhik, Traveling waves for the Keller-Segel system with Fisher birth terms, Interfaces and Free Boundaries, **10**, 2008, 517–538.
56. P. Constantin, J.-M. Roquejoffre, L. Ryzhik and N. Vladimirova, Propagation and quenching in a reactive Burgers-Boussinesq system, Nonlinearity, **21**, 2008, 221–271.
57. J. Nolen and L. Ryzhik, Traveling waves in a one-dimensional random medium, Annales de l'Institute Henri Poincaré, C. Analyse non linéaire, **26**, 2009, 1021–1047.
58. H. Berestycki, A. Kiselev, A. Novikov and L. Ryzhik, The explosion problem in a flow, Journal d'Analyse Mathématique, **110**, 2010, 31–65.
59. A. Mellet, J. Nolen, J.-M. Roquejoffre and L. Ryzhik, Stability of generalized transition fronts, Communications in PDE, **34**, 2009, 521–552.
60. F. Hamel and L. Ryzhik, Travelling fronts for the thermodiffusive system with arbitrary Lewis numbers, Archive for Rational Mechanics and Analysis, **195**, 2010, 923–952.
61. T. Komorowski, Sz. Peszat and L. Ryzhik, Limit of fluctuations of solutions of Wigner Equation, Communications in Mathematical Physics, **292**, 2009, 479–510.
62. H. Berestycki, G. Nadin, B. Perthame and L. Ryzhik, The non-local Fisher-KPP equation: traveling waves and steady states, Nonlinearity **22**, 2009, 2813–2844.
63. G. Bal, T. Komorowski and L. Ryzhik, Asymptotics of the phase of the solutions of the random Schrödinger equation, Arch. Ration. Mech. Anal. **200**, 2011, 613–664.
64. G. Iyer, A. Novikov, L. Ryzhik and A. Zlatos, Exit times of diffusions with incompressible drifts, SIAM J. Math. Anal. **42**, 2010, 2484–2498.
65. T. Komorowski and L. Ryzhik, Fluctuations of solutions to Wigner equation with an Ornstein-Uhlenbeck potential, Discr. Cont. Dyn. Sys. B, **17**, 2012, 871–914.
66. T. Komorowski and L. Ryzhik, A sharp bound on the L^2 norm of the solution of a random elliptic difference equation, Comm. Math. Sci., **9**, 2011, 607–622.
67. G. Bal, T. Komorowski, and L. Ryzhik, Kinetic limits for waves in a random medium. Kinet. Relat. Models **3**, 2010, 529–644.
68. J. Nolen, J.-M. Roquejoffre, L. Ryzhik and A. Zlatos, Existence and non-existence of Fisher-KPP transition fronts, Arch. Rat. Mech. Anal., **203**, 2012, 217–246.
69. A. Kiselev and L. Ryzhik, Biomixing by chemotaxis and enhancement of biological reactions, Comm. PDEs, **37**, 2012, 298–318.
70. T. Komorowski, A. Novikov and L. Ryzhik, Evolution of particle separation in slowly decorrelating velocity fields, Comm. Math. Sci., **10**, 2012, 767–786.
71. M. Moscoso, A. Novikov, G. Papanicolaou and L. Ryzhik, A differential equations approach to l_1-minimization with applications to array imaging, Inverse Problems, **28**, 2012,1050012012.
72. A. Kiselev and L. Ryzhik, Biomixing by chemotaxis and efficiency of biological reactions: the critical reaction case, J. Math. Phys. **53**, 2012, 115609, 9 pp.
73. T. Komorowski, S. Olla and L. Ryzhik, Asymptotics of the solutions of the stochastic lattice wave equation, Arch. Ration. Mech. Anal. **209**, 2013, 455–494.
74. G. Iyer, T. Komorowski, A. Novikov and L. Ryzhik, From homogenization to averaging in cellular flows, Ann. Inst. H. Poincaré Anal. Non Linéaire **31**, 2014, 957–983.

75. F. Hamel, J. Nolen, J.-M. Roquejoffre and L. Ryzhik, A short proof of the logarithmic Bramson correction in Fisher-KPP equations, Netw. Heterog. Media, **8**, 2013, no. 1, 275–289.
76. I. Kukavica, M. Ignatova and L. Ryzhik, The Harnack inequality for second-order elliptic equations with divergence-free drifts, Commun. Math. Sci. **12**, 2014, 681–694.
77. G. Nadin, B. Perthame, L. Rossi and L. Ryzhik, Wave-like solutions for nonlocal reaction-diffusion equations: a toy model, Math. Model. Nat. Phenom. **8**, 2013, 33–41.
78. F. Hamel, J. Nolen, J.-M. Roquejoffre and L. Ryzhik, The logarithmic delay of KPP fronts in a periodic medium, Jour. Eur. Math. Soc. (JEMS), **18**, 2016, 465–505.
79. H. Berestycki, N. Rodriguez and L. Ryzhik, Traveling wave solutions in a reaction-diffusion model for criminal activity, Multiscale Model. Simul. **11**, 2013, 1097–1126.
80. L. Rossi and L. Ryzhik, Transition waves for a class of space-time dependent monostable equations, Commun. Math. Sci. **12**, 2014, 879–900.
81. T. Komorowski and L. Ryzhik, Long time energy transfer in the random Schrödinger equation, Comm. Math. Phys. **329**, 2014, 1131–1170.
82. I. Kukavica, M. Ignatova and L. Ryzhik, The Harnack inequality for second-order parabolic equations with divergence-free drifts of low regularity, Comm. PDE **41**, 2016, 208–226.
83. T. Komorowski, A. Novikov and L. Ryzhik, Homogenization driven by a fractional Brownian motion: the shear layer case, Multiscale Model. Simul. **12**, 2014, 440–457.
84. J. Nolen, J.-M. Roquejoffre and L. Ryzhik, Power-like delay in time inhomogeneous Fisher-KPP equations, Comm. PDE, **40**, 2015, 475–505.
85. F. Hamel and L. Ryzhik, On the nonlocal Fisher-KPP equation: steady states, spreading speed and global bounds, Nonlinearity, **27**, 2014, 273–2753.
86. G. Bal, O. Pinaud, L. Ryzhik and K. Solna, Precursors for waves in random media, Wave Motion **51**, 2014, 1237–1253.
87. N. Rodriguez and L. Ryzhik, Exploring the effects of social preference, economic disparity, and heterogeneous environments on segregation, Comm. Math. Sci., **14**, 2016, 363–387.
88. J.H.M. Evers, R. Fetecau and L. Ryzhik, Anisotropic interactions in an aggregation model, Nonlinearity **28**, 2015, 2847–2871.
89. C. Gomez, O. Pinaud and L. Ryzhik, Hypoelliptic estimates in radiative transfer, Comm. PDE **41**, 2016, 150–184.
90. C. Gomez, O. Pinaud, and L. Ryzhik, Radiative transfer with long-range interactions: regularity and asymptotics, SIAM MMS **15**, 2017, 1048–1072.
91. Y. Gu and L. Ryzhik, The random Schrödinger equation: slowly decorrelating time-dependent potentials, Comm. Math. Sci., **15**, 2017, 359-378.
92. Y. Gu and L. Ryzhik, The random Schrödinger equation: homogenization in time- dependent potentials, Multiscale Model. Simul. **14**, 2016, 323–363.
93. A. Kiselev, L. Ryzhik, Y. Yao and A. Zlatos, Finite time singularity for the modified SQG patch equation, Ann. of Math., **184**, 2016, 909–948.
94. J. Nolen, J.-M. Roquejoffre and L. Ryzhik, Convergence to a single wave in the Fisher-KPP equation, Chin. Ann. Math. Ser. B, **38**, 2017, 629–646
95. E. Bouin, C. Henderson and L. Ryzhik, Super-linear spreading in local and non-local cane toads equations, J. Math. Pures Appl. **108**, 2017, 724–750.

96. J. Nolen, J.-M. Roquejoffre and L. Ryzhik, Refined long time asymptotics for the Fisher-KPP fronts, Commun. Contemp. Math. **21**, 2019, 1850072, 25 pp.
97. G. Bal, O. Pinaud and L. Ryzhik, On the stability of some imaging functionals, Inverse Probl. Imaging **10**, 2016, 585–616.
98. E. Bouin, C. Henderson and L. Ryzhik, The Bramson logarithmic delay in the cane toads equations, Quart. Appl. Math. **75**, 2017, 599–634.
99. T. Chen, T. Komorowski and L. Ryzhik, The weak coupling limit for the random Schrödinger equation: The average wave function, Arch. Ration. Mech. Anal. **227**, 2018, 387–422.
100. T. Do, A. Kiselev, L. Ryzhik and C. Tan, Global regularity for the fractional Euler alignment system, Arch. Ration. Mech. Anal. **228**, 2018, 1–37.
101. Y. Gu, T. Komorowski and L. Ryzhik, The Schrödinger equation with spatial white noise: the average wave function, Jour. Funct. Anal., **274**, 2018, 2113–2138.
102. Y. Gu, L. Ryzhik and O. Zeitouni, The Edwards-Wilkinson limit of the random heat equation in dimensions three and higher, Comm. Math. Phys., **363**, 2018, 351–388.
103. E. Bouin, C. Henderson and L. Ryzhik, The Bramson delay in the non-local Fisher-KPP equation, Ann. Inst. H. Poincaré Anal. Nonlin. **37**, 2020, 51–77.
104. Y. Gu, T. Komorowski and L. Ryzhik, Fluctuations of random semi-linear advection equations, SIAM Jour. Math. Anal., **50**, 2018, 5293–5336.
105. T. Komorowski, S. Olla, L. Ryzhik and H. Spohn, High frequency limit for a chain of harmonic oscillators with a point Langevin thermostat, Arch. Ration. Mech. Anal. **237**, 2020, 497–543.
106. A. Dunlap, Y. Gu, L. Ryzhik and O. Zeitouni, The random heat equation in dimensions three and higher: the homogenization viewpoint, Arch. Rat. Mech. Anal., **242**, 2021, 827–873.
107. A. Dunlap, Y. Gu, L. Ryzhik and O. Zeitouni, Fluctuations of the KPZ equation in dimensions three and higher, Probab. Theory Related Fields **176**, 2020, 1217–1258.
108. J. An and L. Ryzhik, Global well-posedness for the Euler alignment system with mildly singular interactions, Nonlinearity, **33**, 2020, 4670–4699.
109. C. Mueller, L. Mytnik and L. Ryzhik, The speed of a random front for stochastic reaction-diffusion equations with strong noise, Comm. Math. Phys. **384**, 2021, 699–732.
110. T. Komorowski, S. Olla and L. Ryzhik, Fractional diffusion limit for a kinetic equation with an interface, Ann. Probab., **48**, 2020, 2290–2322.
111. Z. Chen, L. Ryzhik and D. Palanker, Current distribution on capacitive electrode-electrolyte interfaces, Phys. Rev. Applied **13**, 2020, 014004.
112. A. Dunlap, C. Graham and L. Ryzhik, Stationary solutions to the stochastic Burgers equation on the line, Comm. Math. Phys. **382**, 2021, 875–949.
113. G. Papanicolaou, L. Ryzhik and K. Velcheva, Traveling waves in a mean field learning model, Nonlinearity, **34**, 2021, 6799–6842.
114. A. Kiselev, F. Nazarov, L. Ryzhik and Y. Yao, Chemotaxis and reactions in biology, Jour. Eur. Math. Soc., **25**, 2022, 2641–2696.
115. L. Mytnik, J.-M. Roquejoffre and L. Ryzhik, Fisher-KPP equation with small data and the extremal process of branching Brownian motion, Adv. Math., **386**, 2022, Paper 108106.
116. A. Dunlap and L. Ryzhik, Viscous shock solutions to the stochastic Burgers equation, Arch. Rat. Mech. Anal., **242**, 2021, 937–971.

117. J. Berestycki, E. Brunet, C. Graham, L. Mytnik, J.-M. Roquejoffre and L. Ryzhik, The distance between the two BBM leaders, Nonlinearity, **35**, 2022, 1558–1609.
118. J. An, C. Henderson and L. Ryzhik, Pushed, pulled and pushmi-pullyu fronts of the Burgers-FKPP equation, to appear in Jour. Eur. Math. Soc., 2024.
119. T. Drivas, A. Dunlap, C. Graham, J. La and L. Ryzhik, Invariant measures for stochastic conservation laws on the line, Nonlinearity **36**, 2023, 4553–4584.
120. J. An, C. Henderson and L. Ryzhik, Quantitative steepness, semi-FKPP reactions, and pushmi-pullyu fronts, Arch. Rat. Mech. Anal., **247**, Paper 88, 2023.
121. J. An, C. Henderson and L. Ryzhik, Voting models and semilinear parabolic equations, Nonlinearity **36**, 2023, 6104–6123.
122. J. La, J.-M. Roquejoffre and L. Ryzhik, A uniform bound for solutions to a thermo-diffusive system, to appear in Arch. Rat. Mech. Anal., 2024.
123. J. An, C. Henderson and L. Ryzhik, Front location determines convergence rate to traveling waves, to appear in Ann. Inst. H. Poincaré Anal. Nonlin., 2024.
124. M. Entov, L. Polterovich and L. Ryzhik, Geometric aspects of a spin chain, to appear in Jour., Stat. Phys., 2024.
125. X. Kriechbaum, L. Ryzhik and O. Zeitouni, Voting models and tightness for a family of recursion equations, to appear in Jour. d'Anal. Math., 2024.
126. A. Dunlap and L. Ryzhik, Branching Brownian motion with generation-dependent diffusivity and nonlocal partial differential equations, Preprint, 2023.
127. H. Berestycki, A. Novikov, J.-M. Roquejoffre and L. Ryzhik, Diffusion of knowledge and the lottery society, Preprint, 2024.
128. M. Entov, L. Polterovich and L. Ryzhik, A contact topological glossary for non-equilibrium thermodynamics, Preprint, 2025.