# Publication List

## Christopher L. Cox

epistibrain.github.io

15. J. Ahmed, T. Chumley, S. Cook, C. Cox, H. Grant, N. Petela, B. Rothrock, R. Xhafaj *Dynamics of the no-slip Galton board*, submitted. [arXiv].

14. T. Chumley, J. Covey, C. Cox, R. Feres, *Chaotic lensed billiards*, submitted.

13. J. Ahmed, C. Cox, B. Wang, *No-slip billiards with particles of varying mass distribution*, Chaos, 32 (2) 2022. [arXiv]

12. C. Cox, R. Feres, B. Zhao, *Rolling systems and their billiard limits*, Regular and Chaotic Dynamics, 26 (1) 2021. [arXiv]

11. T. Chumley, S. Cook, C. Cox, R. Feres, *Rolling and no-slip bouncing in cylinders*, Journal of Geometric Mechanics, 12 (1) 2020. [arXiv]

10. C. Boone, C. Cox, E. Smith, *Specular and no-slip billiards with cusps*, Proceedings of the ICTCM, 2019. [link]

9. C. Cox, R. Feres, H.-K. Zhang, *Stability of periodic orbits of no-slip billiards*, Nonlinearity, 31 (10), 2018, 4433-4471. [arXiv]

8. M. Correia, C. Cox, H.-K. Zhang, *Ergodicity in umbrella billiards*, New Horizons in Mathematical Physics, 1 (2), 2017, 56-67. [arxiv]

7. C. Cox, R. Feres, *No-slip billiards in dimension two*, Dynamical Systems, Ergodic Theory, and Probability: in Memory of Kolya Chernov, Contemporary Mathematics, vol. 698, Amer. Math. Soc., Providence, RI, 2017, 91-110. [arXiv]

6. C. Cox, *No-slip Billiards*, PhD Thesis, 2016. [link]

5. C. Cox, R. Feres, *Differential geometry of rigid bodies collisions and non-standard billiards*, Discrete and Continuous Dynamical Systems A 36 (11), 2016, 6065-6099. [arXiv]

4. C. Cox, *The honeycomb problem on hyperbolic surfaces*, unpublished, 2005. [link]

3. C. Cox, *Flow-dependent networks: Existence and behavior at Steiner points,* Networks **31** (1998), no. 3, 149-156. [link]

2. C. Cox, L. Harrison, M. Hutchings, S. Kim, J. Light, A. Mauer, M. Tilton, *The shortest enclosure of three connected areas in $\mathbb{R}^2$,* Real Anal. Exchange 20 (1994/95), 313-335. [link]

1. T. Colthurst, C. Cox, J. Foisy, H. Howards, K. Kollett, H. Lowy, and S. Root, *Networks minimizing length plus the number of Steiner points,* Network Optimization Problems: Algorithms, Complexity and Applications, (1993), pp. 23-26. [link]