Sampson Wong

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Publications

9. Kevin Buchin, André Nusser, Sampson Wong. "Computing continuous dynamic time warping of time series in polynomial time". To appear in *Thirty-Eighth International Symposium on Computational Geometry, SoCG 2022*.

8. Joachim Gudmundsson, Sampson Wong. "Cubic upper and lower bounds for subtrajectory clustering under the continuous Fréchet distance". In *Thirty-Third ACM-SIAM Symposium on Discrete Algorithms, SODA 2022*.

7. Joachim Gudmundsson, Mees van de Kerkhof, André van Renssen, Frank Staals, Lionov Wiratma, Sampson Wong. "Covering a set of line segments with a few squares". In *Twelfth International Conference on Algorithms and Complexity, CIAC 2021*. Invited to *Special Issue of Theoretical Computer Science, on Algorithms and Complexity*.

6. Joachim Gudmundsson, Sampson Wong. "Improving the dilation of metric graphs by adding edges". In *Thirty-Second ACM-SIAM Symposium on Discrete Algorithms, SODA 2021*.

5. Milutin Brankovic, Kevin Buchin, Koen Klaren, André Nusser, Aleksandr Popov, Sampson Wong. "(k, ℓ)-Medians clustering of trajectories using continuous dynamic time warping". In *Twenty-Eighth International Conference on Advances in Geographic Information Systems, SIGPSPATIAL 2020*.

4. Joachim Gudmundsson, Yuan Sha, Sampson Wong. "Approximating the packedness of polygonal curves". In *Thirty-First International Symposium on Algorithms and Computation, ISAAC 2020*.

3. Joachim Gudmundsson, André van Renssen, Zeinab Saedi, Sampson Wong. "Fréchet distance queries in trajectory data". In *Third Iranian Conference on Computational Geometry, ICCG 2020*. In *Algorithmica, 2021*.

2. Joachim Gudmundsson, Sampson Wong. "Computing the yolk in spatial voting games without computing median lines". In *Thirty-Third AAAI Conference on Artificial Intelligence, AAAI 2019*.

1. Stephan Tillmann, Sampson Wong. "An algorithm for the Euclidean cell decomposition of a cusped strictly convex projective surface". In *Journal of Computational Geometry, 2016*.

Education

- PhD. CS, University of Sydney, supervised by Joachim Gudmundsson (2020-Current)
- MPhil. CS, University of Sydney, supervised by Joachim Gudmundsson (2018-2019)
- BSc. Maths Honours, University of Sydney, supervised by Stephan Tillman (2011-2014)

Competitions and Awards

- Google PhD Fellowship Recipient (2021).
- International Maths Olympiad, AUS Deputy Leader (2019-Current), Gold Medalist (2009).