

SAMPSON WONG

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Publications

10. Joachim Gudmundsson, Martin P. Seybold, Sampson Wong. “Map matching queries on realistic input graphs under the Fréchet distance”. In *SODA 2023*.
9. Kevin Buchin, André Nusser, Sampson Wong. “Computing continuous dynamic time warping of time series in polynomial time”. In *SoCG 2022*.
8. Joachim Gudmundsson, Sampson Wong. “Cubic upper and lower bounds for subtrajectory clustering under the continuous Fréchet distance”. In *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 *CIAC 2021*, and *Theoretical Computer Science, 2022*.
6. Joachim Gudmundsson, Sampson Wong. “Improving the dilation of metric graphs by adding edges”. In *SODA 2021*, and *Transactions on Algorithms, 2022*.
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 *SIGSPATIAL 2020*.
4. Joachim Gudmundsson, Yuan Sha, Sampson Wong. “Approximating the packedness of polygonal curves”. In *ISAAC 2020*, and *Computational Geometry, 2023*.
3. Joachim Gudmundsson, André van Renssen, Zeinab Saedi, Sampson Wong. “Fréchet distance queries in trajectory data”. In *ICCG 2020*, and *Algorithmica, 2021*.
2. Joachim Gudmundsson, Sampson Wong. “Computing the yolk in spatial voting games without computing median lines”. In *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*.

Work and Education

- Postdoc, University of Copenhagen, supervised by Mikkel Abrahamsen (2023 - Current)
- PhD, University of Sydney, supervised by Joachim Gudmundsson (2020-2023)
- MPhil, University of Sydney, supervised by Joachim Gudmundsson (2018-2019)
- BSc Honours, University of Sydney, supervised by Stephan Tillman (2011-2014)

Competitions and Awards

- Google PhD Fellowship Recipient (2021).
- International Maths Olympiad, AUS Deputy Leader (2019-2022), Gold Medalist (2009).