

# Eleni Akrida, BSc(Hons) MSc PhD FHEA

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🌐 Eleni Akrida

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## Employment History

- 2019 – . . . . **Assistant Professor**, Durham University, Department of Computer Science.
- 2017 – 2019 **Postdoctoral Research Associate**, University of Liverpool, Department of Computer Science.
- 2016 – 2017 **University Teacher / Lecturer (temporary)**, University of Liverpool, Department of Computer Science.

## Education

- 2013 – 2016 **Ph.D., University of Liverpool**, Department of Computer Science.  
Thesis title: *Temporal Graphs*.
- 2010 – 2013 **M.Sc., University of Patras** in Mathematics of Computing and Decision Making,  
Department of Mathematics and Department of Computer Engineering & Informatics  
(joint MSc).
- 2006 – 2010 **B.Sc., University of Patras**, Department of Mathematics.

## Research Publications

### Journal Articles

- 1 E. C. Akrida, A. Deligkas, T. Melissourgos, and P. G. Spirakis, “Connected subgraph defense games,” *Algorithmica*, vol. 83, no. 11, pp. 3403–3431, 2021. [DOI: 10.1007/s00453-021-00858-z](#).
- 2 E. C. Akrida, G. B. Mertzios, P. G. Spirakis, and C. L. Raptopoulos, “The temporal explorer who returns to the base,” *J. Comput. Syst. Sci.*, vol. 120, pp. 179–193, 2021. [DOI: 10.1016/j.jcss.2021.04.001](#).
- 3 E. C. Akrida, A. Deligkas, G. B. Mertzios, P. G. Spirakis, and V. Zamaraev, “Matching in stochastically evolving graphs,” *CoRR*, vol. abs/2005.08263, 2020. arXiv: 2005.08263. [URL: https://arxiv.org/abs/2005.08263](#).
- 4 E. C. Akrida, G. B. Mertzios, S. E. Nikolettseas, C. L. Raptopoulos, P. G. Spirakis, and V. Zamaraev, “How fast can we reach a target vertex in stochastic temporal graphs?” *J. Comput. Syst. Sci.*, vol. 114, pp. 65–83, 2020. [DOI: 10.1016/j.jcss.2020.05.005](#).
- 5 E. C. Akrida, G. B. Mertzios, P. G. Spirakis, and V. Zamaraev, “Temporal vertex cover with a sliding time window,” *J. Comput. Syst. Sci.*, vol. 107, pp. 108–123, 2020. [DOI: 10.1016/j.jcss.2019.08.002](#).
- 6 E. C. Akrida, J. Czyzowicz, L. Gasieniec, L. Kuszner, and P. G. Spirakis, “Temporal flows in temporal networks,” *J. Comput. Syst. Sci.*, vol. 103, pp. 46–60, 2019. [DOI: 10.1016/j.jcss.2019.02.003](#).
- 7 E. C. Akrida and P. G. Spirakis, “On verifying and maintaining connectivity of interval temporal networks,” *Parallel Process. Lett.*, vol. 29, no. 2, 1950009:1–1950009:16, 2019. [DOI: 10.1142/S0129626419500099](#).
- 8 E. C. Akrida, L. Gasieniec, G. B. Mertzios, and P. G. Spirakis, “The complexity of optimal design of temporally connected graphs,” *Theory Comput. Syst.*, vol. 61, no. 3, pp. 907–944, 2017. [DOI: 10.1007/s00224-017-9757-x](#).


- 9 E. C. Akrida, L. Gasieniec, G. B. Mertzios, and P. G. Spirakis, "Ephemeral networks with random availability of links: The case of fast networks," *J. Parallel Distributed Comput.*, vol. 87, pp. 109–120, 2016. [DOI: 10.1016/j.jpdc.2015.10.002](https://doi.org/10.1016/j.jpdc.2015.10.002).

## Conference Proceedings

- 1 S. Bradley and E. C. Akrida, "Narrowing and stretching: Addressing the challenge of multi-track programming," in *CEP 2022: Computing Education Practice 2022, Durham, United Kingdom, 6 January 2022*, R. English and C. Stewart, Eds., ACM, 2022, pp. 1–4. [DOI: 10.1145/3498343.3498344](https://doi.org/10.1145/3498343.3498344).
- 2 A. A. Saqaabi, E. C. Akrida, A. I. Cristea, and C. D. Stewart, "A paraphrase identification approach in paragraph length texts," in *IEEE International Conference on Data Mining Workshops, ICDM 2022 - Workshops, Orlando, FL, USA, November 28 - Dec. 1, 2022*, K. S. Candan, T. N. Dinh, M. T. Thai, and T. Washio, Eds., IEEE, 2022, pp. 358–367. [DOI: 10.1109/ICDMW58026.2022.00055](https://doi.org/10.1109/ICDMW58026.2022.00055).
- 3 E. C. Akrida, A. Deligkas, T. Melissourgos, and P. G. Spirakis, "Connected subgraph defense games," in *Algorithmic Game Theory - 12th International Symposium, SAGT 2019, Athens, Greece, September 30 - October 3, 2019, Proceedings*, D. Fotakis and E. Markakis, Eds., ser. Lecture Notes in Computer Science, vol. 11801, Springer, 2019, pp. 216–236. [DOI: 10.1007/978-3-030-30473-7\\_15](https://doi.org/10.1007/978-3-030-30473-7_15).
- 4 E. C. Akrida, G. B. Mertzios, S. E. Nikolettseas, C. L. Raptopoulos, P. G. Spirakis, and V. Zamaraev, "How fast can we reach a target vertex in stochastic temporal graphs?" In *46th International Colloquium on Automata, Languages, and Programming, ICALP 2019, July 9-12, 2019, Patras, Greece*, C. Baier, I. Chatzigiannakis, P. Flocchini, and S. Leonardi, Eds., ser. LIPIcs, vol. 132, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2019, 131:1–131:14. [DOI: 10.4230/LIPIcs.ICALP.2019.131](https://doi.org/10.4230/LIPIcs.ICALP.2019.131).
- 5 E. C. Akrida, G. B. Mertzios, and P. G. Spirakis, "The temporal explorer who returns to the base," in *Algorithms and Complexity - 11th International Conference, CIAC 2019, Rome, Italy, May 27-29, 2019, Proceedings*, P. Heggernes, Ed., ser. Lecture Notes in Computer Science, vol. 11485, Springer, 2019, pp. 13–24. [DOI: 10.1007/978-3-030-17402-6\\_2](https://doi.org/10.1007/978-3-030-17402-6_2).
- 6 E. C. Akrida, G. B. Mertzios, P. G. Spirakis, and V. Zamaraev, "Temporal vertex cover with a sliding time window," in *45th International Colloquium on Automata, Languages, and Programming, ICALP 2018, July 9-13, 2018, Prague, Czech Republic*, I. Chatzigiannakis, C. Kaklamanis, D. Marx, and D. Sannella, Eds., ser. LIPIcs, vol. 107, Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2018, 148:1–148:14. [DOI: 10.4230/LIPIcs.ICALP.2018.148](https://doi.org/10.4230/LIPIcs.ICALP.2018.148).
- 7 E. C. Akrida, J. Czyzowicz, L. Gasieniec, L. Kuszner, and P. G. Spirakis, "Temporal flows in temporal networks," in *Algorithms and Complexity - 10th International Conference, CIAC 2017, Athens, Greece, May 24-26, 2017, Proceedings*, D. Fotakis, A. Pagourtzis, and V. T. Paschos, Eds., ser. Lecture Notes in Computer Science, vol. 10236, 2017, pp. 43–54. [DOI: 10.1007/978-3-319-57586-5\\_5](https://doi.org/10.1007/978-3-319-57586-5_5).
- 8 E. C. Akrida, L. Gasieniec, G. B. Mertzios, and P. G. Spirakis, "On temporally connected graphs of small cost," in *Approximation and Online Algorithms - 13th International Workshop, WAOA 2015, Patras, Greece, September 17-18, 2015. Revised Selected Papers*, L. Sanità and M. Skutella, Eds., ser. Lecture Notes in Computer Science, vol. 9499, Springer, 2015, pp. 84–96. [DOI: 10.1007/978-3-319-28684-6\\_8](https://doi.org/10.1007/978-3-319-28684-6_8).
- 9 E. C. Akrida and P. G. Spirakis, "On verifying and maintaining connectivity of interval temporal networks," in *Algorithms for Sensor Systems - 11th International Symposium on Algorithms and Experiments for Wireless Sensor Networks, ALGOSENSORS 2015, Patras, Greece, September 17-18, 2015, Revised Selected Papers*, P. Bose, L. A. Gasieniec, K. Römer, and R. Wattenhofer, Eds., ser. Lecture Notes in Computer Science, vol. 9536, Springer, 2015, pp. 142–154. [DOI: 10.1007/978-3-319-28472-9\\_11](https://doi.org/10.1007/978-3-319-28472-9_11).
- 10 E. C. Akrida, L. Gasieniec, G. B. Mertzios, and P. G. Spirakis, "Ephemeral networks with random availability of links: Diameter and connectivity," in *26th ACM Symposium on Parallelism in Algorithms and Architectures, SPAA '14, Prague, Czech Republic - June 23 - 25, 2014*, G. E. Blelloch and P. Sanders, Eds., ACM, 2014, pp. 267–276. [DOI: 10.1145/2612669.2612693](https://doi.org/10.1145/2612669.2612693).









## Research Projects

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- 2022 – 2023      Lead investigator in the CPHC-funded project “A Theoretical Computer Science Commons in the hybrid era”.







## Teaching Experience

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- 2020 – . . . . .      Design and delivery of COMP3477 Algorithmic Game Theory, Durham University.
- 2019 – . . . . .      Design and delivery of BUSI41001 Maths Skills, Durham University.
-  Delivery of components of COMP1021 Mathematics for Computer Science, Durham University.
- 2019 – 2022      Delivery of components of COMP1071 Computer Systems, Durham University.
- 2019 – 2020      Delivery of components of COMP1051 Computational Thinking & components of COMP3402/3411/4042/4051 Contemporary Computer Science III & IV, Durham University.
- 2016 – 2017      Design and delivery of COMP282 Advanced Object-Oriented Programming, University of Liverpool.
- 2013 – 2016      Teaching and tutorial support in the following in the Department of Computer Science, University of Liverpool:
- Level 1 module “Foundations of Computer Science”
  - Level 2 module “Complexity of Algorithms”
  - Level 3 module “Algorithmic and Game Theoretic Foundations for Internet Economics
  - MSc module “Advanced Algorithmic Techniques”
- 2010 – 2013      Tutorial support in the following in the Department of Mathematics, University of Patras:
- Level 1 module “Introduction to Computer Science”
  - Level 4 module “Discrete Mathematics





## Positions of responsibility

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- 2023 – . . . . .      Professional Recognition Pathway (PRP) Reviewer for for Fellowship of Advance HE, Durham University.
- 2022 – . . . . .      Member of the Durham University Education Committee.
- 2021 – . . . . .      Chair of the Undergraduate Student-Staff Consultative Committee in the Department of Computer Science, Durham University.
- 2020 – . . . . .      Director of Undergraduate Studies in the Department of Computer Science, Durham University.
-  Member of the Equality, Diversity and Inclusion Committee in the Department of Computer Science, Durham University.
- 2019 – . . . . .      Disability Support officer in the Department of Computer Science, Durham University.

## Indicators of Esteem


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- 2023  General chair of the conference “Computing Education Practice”.
- 2022  Invited Exhibitor at Durham University’s Celebrating Excellence Dinner.  
 Member of Carmel College Computing Hub’s Strategic Board (ongoing).
- 2021  Invited speaker in the “British Colloquium for Theoretical Computer Science”.



## Miscellaneous Experience

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### Awards and Achievements

- 2021  Nominee for the Durham University Learning and Teaching award 2021 in “Excellence in Student Academic Support”.

### Certification

- 2023  Fellow of Advance HE (formerly the Higher Education Academy).  
 Postgraduate Certificate in Academic Practice, Durham University.

### Other

Eleni likes singing and running. She worked as a singer in Patras, Greece, during her MSc studies between 2010 and 2013, singing in Greek folk, jazz, and blues bands. She started running long-distances in 2013 upon moving to the UK and has since participated in half-marathons, marathons, and ultramarathons. Her Marathon PB is 3hrs 33min (2018) and her half-marathon PB is 1hr 38min (2017). She is still trying to beat the Boston marathon qualifying time of 3hrs 30min although currently has no intention of taking part in said marathon.