Johnson Phosavanh

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https://jphosavanh.github.io/

EDUCATION

Doctor of Philosophy (Business)
The University of Sydney *Jul 2022 — Dec 2025*

- Thesis title: *Dynamic scheduling problems*.

Bachelor of Advanced Studies (Honours)
The University of Sydney *Feb 2021 — Dec 2021*

- First Class Honours with University Medal.
- Honours in Business Analytics.

Bachelor of Science
The University of Sydney *Feb 2018 — Dec 2020*

- Majors in Business Analytics and Data Science.

RESEARCH

PEER REVIEWED ARTICLES

1. **Phosavanh J.**, Matsypura, D. (2025). Centrality of shortest paths: algorithms and complexity results. To appear in the *INFORMS Journal on Computing*.

2. **Phosavanh J.**, Oron, D. (2025). Single-machine two-agent scheduling with a rate-modifying activity and weighted due-date-related functions. *Journal of Scheduling*. https://doi.org/10.1007/s10951-025-00853-0.

3. **Phosavanh J.**, Oron, D. (2025). Minimizing the number of late jobs and total late work with step-learning. *European Journal of Operational Research, 321*(3), 734–749. https://doi.org/10.1016/j.ejor.2024.09.042.

4. **Phosavanh J.**, Oron, D. (2024). Two-agent single-machine scheduling with a rate-modifying activity. *European Journal of Operational Research, 312*(3), 866–876. http://doi.org/10.1016/j.ejor.2023.08.002.

ARTICLES UNDER REVIEW

1. **Phosavanh J.**, Oron, D. (2025). Minimizing total weighted late work with step-learning on a single machine. Submitted to *Discrete Applied Mathematics* (1st round R&R).

CONFERENCES AND PRESENTATIONS

1. **Phosavanh J.**, Oron, D. (2025, October 25 – 29). Single-machine scheduling with cooperative agents and nondisjoint job sets. *2025 INFORMS Annual Meeting*, Atlanta, GA, United States of America.
2. **Phosavanh J.**, Oron, D. (2025, June 22 – 25). Single-machine scheduling with cooperative agents and nondisjoint job sets. 34th *European Conference on Operational Research (EURO 2025)*, Leeds, United Kingdom.
3. **Phosavanh J.**, Oron, D. (2024, December 4 – 6). Minimizing the number of late jobs and total late work with step-learning. *Workshop on Optimisation, Metric Bounds, Approximation and Transversality (WOMBAT)*, Sydney, NSW, Australia.
4. **Phosavanh J.**, Oron, D. (2024, October 20 – 23). Minimizing the number of late jobs and total late work with step-learning. *2024 INFORMS Annual Meeting*, Seattle, WA, United States of America.
5. **Phosavanh J.**, Oron, D. (2024, June 30 – July 3). Minimizing the number of late jobs and total late work with step-learning. 33rd *European Conference on Operational Research (EURO 2024)*, Copenhagen, Denmark.
6. **Phosavanh J.**, Matsypura, D. (2023, December 11 – 16). Finding the most central shortest path in a graph. *Joint Workshop on Optimisation, Metric Bounds, Approximation and Transversality (WOMBAT) and Workshop on the Intersections of Computation and Optimisation (WICO)*, Sydney, NSW, Australia.
7. **Phosavanh J.**, Matsypura, D. (2023, October 15 – 18). Finding the most central shortest path in a graph. *2023 INFORMS Annual Meeting*, Phoenix, AZ, United States of America.
8. **Phosavanh J.**, Oron, D. (2023, June 5 – 6). Single-machine scheduling with two competing agents and rate-modifying activities with weighted due-date related functions. *The Fourth International Workshop on Dynamic Scheduling Problems (IWDSP 2023)*, Winterthur, Switzerland.
9. **Phosavanh J.**, Oron, D. (2022, December 6 – 9). Two-agent single-machine scheduling with a rate-modifying activity. *66th Annual Meeting of the Australian Mathematical Society (AustMS)*, Sydney, NSW, Australia.

TEACHING

The University of Sydney

- QBUS1040: Foundations of Business Analytics
  - Coordinator & Lecturer: Semester 1, 2025 – Semester 2, 2025
  - Head tutor: Semester 1, 2022 – Semester 2, 2024
  - Tutor: Semester 2, 2021
  - Lab demonstrator: Semester 1, 2019 – Semester 1, 2021
- QBUS2310: Management Science
  - Head tutor: Semester 1, 2022 – Semester 2, 2024

- QBUS6820: Prescriptive Analytics: From Data to Decision
    - Head tutor: Semester 1, 2023
- DATA1001: Foundations of Data Science
    - Lab demonstrator: Semester 1, 2020 – Semester 2, 2020
- MATH1005: Statistical Thinking with Data
    - Lab demonstrator: Semester 2, 2020

SCHOLARSHIPS & AWARDS

RESEARCH

- Enhanced Business School Research Scholarship, 2022 – 2025.
- Discipline of Business Analytics Student Poster Prize Winner, 2025.
- Research Travel Support Scheme, 2025.
- Postgraduate Research Support Scheme, 2025.
- Discipline of Business Analytics Student Paper Prize Winner, 2024.
- Postgraduate Research Support Scheme, 2024.
- Research Travel Support Scheme, 2024.
- Research Travel Support Scheme, 2023.
- The Westbrook and Jessie Anstice Honours Scholarship in Business, 2021.
- Denison Research Scholarship, 2019 – 2020.

TEACHING

- 2024 Dean's Award for Feedback for Teaching (FFT).
    - Awarded in recognition of outstanding performance for an individual instructor demonstrating and reflecting upon exceptional teaching.
- Feedback for Teaching (FFT) Student Survey Award for Teaching.
    - Awarded in recognition of individual instructors based on high overall evaluations from students on the FFT:
        - QBUS1040, Semester 1, 2024.
        - QBUS2310, Semester 1, 2024.
        - QBUS1040, Semester 2, 2023.
- 2022 Discipline of Business Analytics Teaching Excellence Award.
    - Awarded in recognition of outstanding achievement in teaching within the Discipline of Business Analytics.

ACADEMIC

- University of Sydney Academic Merit Prize, 2021.
- Dean's List of Excellence in Academic Performance, 2021.
- University of Sydney Academic Merit Prize, 2020.
- Dean's List of Excellence in Academic Performance, 2020.
- University of Sydney Academic Merit Prize, 2019.
- Discipline of Business Analytics Prize in 2nd year Quantitative Business: 2019.
- Tim Brown Prize No 1 for Intermediate Statistics, 2019.

- Dean’s List of Excellence in Academic Performance, 2019.
- Dean’s List of Excellence in Academic Performance, 2018.

OTHER RELEVANT EXPERIENCE

Research Assistant
The University of Sydney *Sep 2019 — Dec 2022*

- Worked on implementing various algorithms in Python.

Data61 Undergraduate Vacation Scholar
Data61, CSIRO *Dec 2020 — Feb 2021*

- Worked on developing graphical deep learning models for predicting traffic volume in a connected road network.

Denison Research Scholar
The University of Sydney *Dec 2019 — Feb 2020*

- Worked on evaluating heat load models for dairy cattle.

REFERENCES

Available upon request.