

Josef Bisits

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EDUCATION

University of New South Wales	Sydney
PhD candidate, supervisor Associate Professor Jan Zika, in the School of Mathematics and Statistics.	2022–current
University of New South Wales	Sydney
Bachelor of Science (Advanced Mathematics) (Honours) Class 1, major in applied mathematics.	2016–2021
University of Sydney	Sydney
Bachelor of Music (Performance), major in double bass performance.	2007–2010

PUBLICATIONS

1. **Bisits, Josef I.**, Stanley, Geoffrey J., Zika, Jan D. 2022: Can we accurately estimate a lateral diffusivity from a single tracer release? *Journal of Physical Oceanography*, DOI: 10.1175/JPO-D-22-0145.1
2. Lloyd, Simon D., **Bisits, Josef I.**, Roser, David J., Khan, Stuart J., 2023: Assessing the impact of stormwater contamination events in urban estuaries proposed for bathing, (in prep).

CONFERENCE PROCEEDINGS, SEMINARS AND WORKSHOPS

ORAL PRESENTATIONS

- **Bisits, Josef I.**, Can we accurately estimate a lateral diffusivity from a single tracer release? Novmeber 28th 2022. *Australian Meteorological and Oceanographic society annual conference 27th November - 1st December 2022.*

POSTER PRESENTATIONS

- **Bisits, Josef I.**: Can we accurately estimate a lateral diffusivity from a single tracer release? November 9th 2022. *Australian Centre for Excellence in Antarctic Science workshop 8-9th November 2022.*

RESEARCH EXPERIENCE

Research assistant	Sydney
Assisted Associate Lecturer Simon Lloyd in historical water quality data analysis and modelling:	2022
– processing and analysing data used to develop the ‘riverwatch model’ - a predictive water quality model.	
Collaboration with Water Research Centre, UNSW	Sydney
Recreational water quality in urban rivers:	2020
– provided Initial and ongoing advice regarding spatial and temporal analysis of water quality and meteorological data. Acknowledged in: Lloyd, D. S., et al. Swimming in urban rivers: Development of a Bayesian Belief Network to predict health risks to recreational users. <i>Closed Cycles 2020, Zurich, Switzerland, (2020, Sep 2–4).</i>	

TEACHING

Mathematics tutor	University of New South Wales
Classroom and private mathematics tuition:	2021–Current

- mathematics drop in centre; and
- mathematics 1A (MATH1131).

Double bass

Private and ensemble double bass tuition in Sydney.

Sydney
2017–2022

PROGRAMMING SKILLS

Programming languages

[Julia](#), R, git, L^AT_EX:

- author of [OceanRasterConversions.jl](#);
- developer of [PassiveTracerFlows.jl](#); and
- contributor to [FourierFlows.jl](#), [GeophysicalFlows.jl](#) amongst others.

ORCHESTRAL EXPERIENCE

Sydney Symphony Orchestra

Regular casual double bassist:

- full time contract musician for 2015 season and September 2017–September 2018; and
- Sydney symphony fellowship 2010.

Sydney
2009–Current

Australian Chamber Orchestra

Regular casual double bassist:

- emerging artist in 2013.

Sydney
2013–Current

Opera Australia Orchestra

Regular casual double bassist.

Sydney
2016–Current

Ulster Orchestra

Double bassist:

- held a trial for double bass section leader.

Belfast
Winter 2012

Southbank Sinfonia

Double bassist:

- principal double bassist; and
- twice appeared as a solo double bassist.

London
2011–2012

SCHOLARSHIPS AND AWARDS

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| • Australian Government Research Training Program Scholarship. | 2022–2025 |
| • School of Mathematics and Statistics research scholarship top-up. | 2022–2025 |
| • Australian Centre for Excellence in Antarctic Research PhD student. | 2022–2025 |
| • Corina d'Hage string scholarship. | 2008–2010 |
| • Michael Bannigan scholarship for academic achievement. | 2010 |
| • Winner of Sydney youth orchestra concerto competition. | 2006 |

REFERENCES

- | | |
|---|---|
| • Associate Professor Jan Zika, <i>University of New South Wales, Sydney.</i> | Email: j.zika@unsw.edu.au |
| • Associate Lecturer Simon Lloyd, <i>University of New South Wales, Sydney.</i> | Email: s.lloyd@unsw.edu.au |
| • Dr Geoff Stanley, <i>Banting Postdoctoral Fellow, University of Victoria, Canada.</i> | Email: gstanley@uvic.ca |