

# Josef Bisits

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GitHub: [github.com/jbisits](https://github.com/jbisits)

## EDUCATION

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

## PUBLICATIONS

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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

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### 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

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<b>Research assistant</b>	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.	
<b>Collaboration with Water Research Centre, UNSW</b>	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>	

## PROGRAMMING SKILLS

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### Programming languages

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

## TEACHING

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### Mathematics tutor

Classroom and private mathematics tuition:

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

University of New South Wales

2021–Current

### Double bass

Private and ensemble double bass tuition in Sydney.

Sydney

2017–2022

## ORCHESTRAL EXPERIENCE

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### 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

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