

EaroWang

info

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Econometrics &
Business Statistics
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languages

♥ R, HTML/CSS, SQL,
L^AT_EX

applications

Vim, Git, iTerm2, Zsh

OS

Macos, Linux (Ubuntu),
Windows

education

- 2016– **Ph.D. candidate** Monash University
Thesis title: Tidy data structure and visualization to support exploration and modeling of temporal-context data
Supervisors: Professor Dianne Cook & Professor Rob J Hyndman
- 2012–2015 **B.Comm.(Hons) in Econometrics** Monash University
Honors thesis: Exploratory visualization of big time series data
Supervisor: Professor Rob J Hyndman

awards

- 2018 **Data Challenge First Prize** Atlas of Living Australia & useR! 2018
Built a shiny application to explore the varieties of bees in the Atlas of Living Australia, with a cash prize AU\$500. Teamwork with Mitchell O'Hara-Wild & Stephanie Kobakian.
- ACEMS Business Analytics Prize** ACEMS (Monash University)
"Calendar-based graphics for visualizing people's daily schedule" received the best student paper award from ACEMS on Business Analytics, with a cash prize AU\$3,000.
- ASA Statistical Graphics Student Paper Award** American Statistical Association
"Calendar-based graphics for visualizing people's daily schedule" received the best student paper award from ASA on Statistical Graphics, with a cash prize US\$1,000.
- 2017 **Data61 Topup Postgraduate Research Scholarship** CSIRO Data61
Supplementary postgraduate scholarship valued at up to AU\$10,000 per annum.
- 2016 **Monash Graduate Scholarship** Monash University
The scholarship is offered to candidate who has obtained as an Australian bachelors degree with first class honors, valued at AU\$26,288 per annum.
- 2015 **Dean's Honors List -- First Class Honors** Monash University
The Dean's Lists recognize excellent and sustained academic performance among the students.

publications

- 1 **Wang, E**, D Cook, and RJ Hyndman (2017). Calendar-based graphics for visualizing people's daily schedules. Working paper 17/01. Department of Econometrics & Business Statistics, Monash University. <http://pub.earo.me/calendar-vis.pdf>.
- 2 Hyndman, RJ, AJ Lee, and **E Wang** (2016). Fast computation of reconciled forecasts for hierarchical and grouped time series. Version 687. In: Computational Statistics & Data Analysis **97**, 16–32. DOI: [10.1016/j.csda.2015.11.007](https://doi.org/10.1016/j.csda.2015.11.007).
- 3 Hyndman, RJ, **E Wang**, and N Laptev (2015). Large-scale unusual time series detection. In: Proceedings of the IEEE International Conference on Data Mining. Atlantic City, NJ, USA. 14–17 November 2015. DOI: [10.1109/ICDMW.2015.104](https://doi.org/10.1109/ICDMW.2015.104).

teaching

I'm a teaching associate for the following units at Monash University since 2014:

- ETC3550: Applied forecasting for business and economics
- ETC2420: Statistical thinking
- ETC1010: Data modeling and computing
- ETC1000: Business and economic statistics

talks

2018.08	Tidy your time series analysis with tsibble Graphics Group at Iowa State University	Ames, US http://slides.earo.me/isu18
2018.07	Calendar-based graphics for visualizing people's daily schedules Joint Statistical Meeting 2018	Vancouver, CA http://slides.earo.me/jsm18
2018.07	tsibble: The 15th time series standard useR! 2018	Brisbane, AU http://slides.earo.me/useR18
2018.04	Tidy data structure and calendar-based visualisation to support exploration of temporal-context data Julie Josse's Lab at Ecole Polytechnique & EDF	Paris, FR http://slides.earo.me/bonjour
2018.02	Calendar-based graphics for visualizing people's daily schedules Graphics Group at Iowa State University	Melbourne, AU http://slides.earo.me/gwg18
2018.02	When time series meets tibble, it's tsibble! RStudio Conference	San Diego, US http://slides.earo.me/rstudioconf18.pdf
2017.12	Calendar-based graphics for visualizing people's daily schedules IASC(NZSA)	Auckland, NZ http://slides.earo.me/iasc17
2017.10	Analysing sub-daily time series data Melbourne Users of R Network	Melbourne, AU http://slides.earo.me/meetup17
2017.06	Sketch people's daily schedules Wombat	Melbourne, AU http://slides.earo.me/wombat17

workshops

2018.05	Everything you need to know to create your own R package R Ladies Melbourne Meetup	Melbourne, AU http://slides.earo.me/rladies-pkg
2017.05	Tidy data and visualization to support exploration of temporal data with R Melbourne Data Science Week	Melbourne, AU http://slides.earo.me/medasci17

software

I have contributed a number of R packages. These packages that I maintain on CRAN are listed.

- **hts** Methods for analysing and forecasting hierarchical and grouped time series.
- **rwalkr** Provides API to Melbourne pedestrian data in tidy data form.
- **sugrants** Provides 'ggplot2' graphics for analysing time series data.
- **tsibble** Tidy temporal data frames and tools.

experience

2017.06–08	Google Summer of Code <i>Software developer</i> Developed and documented <code>frame_calendar()</code> for the sugrants package. Developed the rwalkr package which provides API to Melbourne pedestrian data.	
2013–2015	Monash University <i>Research Assistant</i> Re-implemented the hts package to have a more user-friendly interface and faster algorithms for aggregation and reconciliation. Added new utilities to the forecast package.	Melbourne, AU

service

- **useR! 2018 Conference** *Programme committee*