EaroWang

info

 Dept. of
Econometrics &
Business Statistics
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languages

♥ R, HTML/CSS, SQL,
LaTeX

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 — Altas 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.

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.

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

2018.09	**Tidy your time series analysis with tsibble**	Ames, US
	Graphics Group at Iowa State University	http://slides.earo.me/isu18
2018.07	**Calendar-based graphics for visualizing people's daily schedules**	Vancouver, CA
	Joint Statistical Meeting 2018	http://slides.earo.me/jsm18
2018.07	**tsibble: The 15th time series standard**	Brisbane, AU
	useR! 2018	http://slides.earo.me/useR18
2018.04	**Tidy data structure and calendar-based visualisation to support exploration of temporal-context data**	Paris, FR
	Julie Josse's Lab at Ecole Polytechnique & EDF	http://slides.earo.me/bonjour
2018.02	**Calendar-based graphics for visualizing people's daily schedules**	Melbourne, AU
	Graphics Group at Iowa State University	http://slides.earo.me/gwg18
2018.02	**When time series meets tibble, it's tsibble!**	San Diego, US
	RStudio Conference	http://slides.earo.me/rstudioconf18/tsibble.pdf
2017.12	**Calendar-based graphics for visualizing people's daily schedules**	Auckland, NZ
	IASC(NZSA)	http://slides.earo.me/iasc17
2017.10	**Analysing sub-daily time series data**	Melbourne, AU
	Melbourne Users of R Network	http://slides.earo.me/meetup17
2017.06	**Sketch people's daily schedules**	Melbourne, AU
	Wombat	http://slides.earo.me/wombat17

workshops

2018.05	**Everything you need to know to create your own R package**	Melbourne, AU
	R Ladies Melbourne Meetup	http://slides.earo.me/rladies-pkg/
2017.05	**Tidy data and visualization to support exploration of temporal data with R**	Melbourne, AU
	Melbourne Data Science Week	http://slides.earo.me/medascin17

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.
- **sugrrants** Provides 'ggplot2' graphics for analysing time series data.
- **tsibble** Tidy temporal data frames and tools.

experience

2017.06–08	**Google Summer of Code**	
	Software developer	
	Developed and documented `frame_calendar()` for the **sugrrants** package.	
	Developed the **rwalkr** package which provides API to Melbourne pedestrian data.	
2013–2015	**Monash University**	Melbourne, AU
	Research Assistant	
	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.	

service

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