

# Timothy J Deitz

*Clinical Psychologist & Data Scientist*

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🌐 [psychlytx.com](http://psychlytx.com) (under construction)

🐦 [Psychlytx](#)

🔊 [PsychlytxTD](#)

*Interactive statistical web applications, data wrangling,  
reports, data visualisation, statistical analyses,  
psychometrics*

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## Education

- 2015–2017 **Master of Psychology (Clinical)**, *The University of Melbourne*, Parkville, VIC.
- First Class Honors grade across all units (Weighted Average Mark = 85.35).
  - Data analysis units completed: Advanced Psychological Assessment & Diagnosis, Graduate Research Methods, Principles of Psychological Assessment.
- 2014–2015 **Postgraduate Diploma in Psychology**, *The University of Melbourne*, Parkville, VIC.
- First Class Honors grade across all units (Weighted Average Mark = 85.25).
  - Data analysis units completed: Advanced Design & Data Analysis, Research Project.
- 2012–2014 **Graduate Diploma in Psychology**, *The University of Melbourne*, Parkville, VIC.
- First Class Honors average (Weighted Average Mark = 84.7).
  - Data analysis units completed: Research Methods for Human Inquiry, Psychological Science: Theory & Practice.
- 2008–2011 **Bachelor of Arts (Media & Communications)**, *The University of Melbourne*, Parkville, VIC.
- Majors in International Development Studies, Media & Communications
- 2000–2005 **Victorian Certificate of Education**, *Woodleigh School*, Baxter, VIC.
- Enter Score of 95.65

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## Data Science Experience

- 2018–  
Present **Co-Founder of Tech Startup in Psychometrics**, *Psychlytx*, Collingwood, VIC.
- Developed production-quality web applications for clinicians to remotely administer psychological outcome measures to patients.
  - Used advanced data-wrangling techniques enabling web applications to interact with data from web APIs, Amazon S3, a PostgreSQL database and diverse local filetypes.
  - Developed user-friendly and sophisticated UX interface.
  - Designed database schema to store clinical outcome data.
  - Created functionality to download pdf reports and email results from within web applications.
  - Maintained correct version control processes locally and remotely through Git and Github.

- 2017– **Clinical Psychologist**, *Epworth Rehabilitation Hospital*, Camberwell, VIC.
- Present
- Conducted statistical evaluation of a multidisciplinary program for persistent pain.
  - Integrated & wrangled data from multiple hospital sites.
  - Communicated program and patient outcomes through an interactive web application and customised reports.
  - Conducted comprehensive psychological assessments and ongoing psychotherapy to individuals experiencing a diverse range of medical conditions and psychiatric presentations.
  - Provided clinical consultation and presentations to a multidisciplinary team of professionals.
  - Improved program efficiency through the introduction of new administrative methodologies.

## Data Science Skills/Languages

- R & Rstudio Package development, functional programming, data visualisation, statistical analyses.
- Shiny Interactive web applications, dashboards, analytics.
- R Markdown Reports & presentations.
- SQL Database design and querying.
- Shell Automation, file management.
- Git Version control, collaboration.
- Python Data analysis & automation.
- Regular String manipulation.
- Expressions
- SPSS Statistical analyses.
- HTML & CSS UX design and styling.
- Microsoft Data collection & storage.
- Excel
- French Bilingual communication.
- Language

## Software

- 2019 **Created Measurely, a suite of web applications for completing psychological outcome measures (hosted via Docker, AWS & Shiny Proxy).**, <https://psychlytx.com/measurely>.
- 2019 **Developed the Psychlytx R package, a private package containing Shiny modules and functions for generating the UX and backend of Measurely web applications.**, <https://github.com/TimothyDeitz/>.

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## Online Learning

- 2019 **Successful course completion: Data Scientist With R, 94 hours, 22 modules**, DataCamp.

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## Research

- 2015 **Do you mind? Attention management for persistent pain.**, *Thesis - Master of Psychology (Clinical)*, The University of Melbourne.  
○ Statistically evaluated a 6-week trial of a mindfulness-based intervention for persistent pain.
- 2014 **Do perceived stigma and positive perceptions of caregiving predict parental self-efficacy among parents of children with disabilities?**, *Thesis - Postgraduate Diploma in Psychology*, The University of Melbourne.  
○ Crosssectionally analysed a large data set developed by the Parenting Research Centre.

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## Other Relevant Experience

- 2017 **Mental Health Case Manager**, *Sacred Heart Mission*, St Kilda, VIC.  
○ Provided case management and psychological support to individuals experiencing homelessness and extreme disadvantage.
- 2016 **Provisional Psychologist**, *St Vincents Hospital Acute Inpatient Service*, Fitzroy, VIC.  
○ Undertook clinical psychological assessments and acute treatment interventions with severely unwell patients admitted for suicidality, psychosis, and aggressive behaviours.
- 2016 **Provisional Psychologist**, *Royal Children's Hospital*, Parkville, VIC.  
○ Conducted psychometric assessments and short-term treatment with children aged 5 to 12.