

# Timothy J Deitz

*Clinical Psychologist & Data Scientist*

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in Timothy Deitz

🐦 Psychlytx

🔗 PsychlytxTD

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

## 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

## Data Science Experience

- 2019– **Co-Founder | Data Scientist**, *Psychlytx*, Collingwood, VIC.
- Present
- Developed production-quality statistical web applications that enable clinicians to remotely administer psychological outcome measures
  - Conducted front-end customisation of web applications using Javascript, HTML and CSS
  - Developed user-friendly and sophisticated UX interface.
  - Designed and implemented a sophisticated database schema using PostgreSQL
  - Adhered to best practices in functional programming to perform complex data wrangling procedures and statistical analyses within Shiny web applications
  - Developed code for importing and exporting data between R Shiny web applications, web APIs (XML, JSON), relational database tables (SQL) diverse local file types (.csv, .xlsx, .txt, .rds, .rda, .rdata) and AWS.

- 2019– **(contd.) Co-Founder, *Psychlytx***, Collingwood, VIC.
- Present
- Created a private R package with complete documentation
  - Deployed R code to production using Docker, Shinyproxy and AWS
  - Set up and maintained robust version control systems using Git and Github
  - Designed interactive plots using ggplot2 and plotly
  - Established blogging functionality to display interactive graphics and share knowledge
  - Located and collated pertinent research statistics through academic literature reviews
- 2018– **Founder | Clinical Psychologist, *Effective Psychology***, Franston, VIC.
- Present
- Provided comprehensive psychological & psychometric assessments
  - Utilised diverse psychotherapeutic approaches (CBT, ISTDP, ACT, Mindfulness, Motivational Interviewing) according to client need
- 2017– **Clinical Psychologist, *Epworth Health***, Camberwell, VIC.
- Present
- Statistical evaluation of pain management programs across multiple hospital sites
  - Wrangled, synthesised and integrated data from diverse sources
  - Reported patient and service outcomes using the R and R Markdown technology frameworks
  - Developed customised web application using R Shiny to explore within-site and cross-site data trends
  - Undertook clinical assessments and psychometric evaluations of patients experiencing a wide range of physical and mental health conditions, including persistent pain, cancer, stroke, heart disease, serious workplace and transport-related injuries, PTSD, depression, diverse anxiety disorders and medically unexplained symptoms (e.g. loss of limb function, migraine headaches)
  - Provision of expertise to multidisciplinary team members and medical staff
  - Generated reports for third parties including WorkCover, TAC, judicial authorities and private insurance companies
  - Improved program efficiency through the introduction of new administrative methodologies.
- 2017–2019 **Psychologist & Clinical Psychology Registrar, *Positive Psychology***, Mornington, VIC.
- Completed short- and longer-term psychotherapy with clients experiencing depression, anxiety, PTSD, personal disorders, substance dependence, somatic issues, relationship problems, psychosis and Bipolar Disorder
  - Completed ethical and administrative requirements

## 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 analysis.

Javascript, UX design & styling.  
HTML &  
CSS  
Microsoft Excel  
Data collection & storage.  
French  
Fluent written & spoken communication.  
Language

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## 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 **Near 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.
  - Crossectionally 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.