Timothy J Deitz

Clinical Psychologist & Data Scientist

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*Interactive statistical web applications, data wrangling,
reports, 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, Prinicples of Psychologial 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

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– Present	**Clinical Psychologist**, *Epworth Rehabilitation Hospital*, Camberwell, VIC.

- 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 asessments 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 Expressions	String manipulation.
SPSS	Statistical analyses.
HTML & CSS	UX design and styling.
Microsoft Excel	Data collection & storage.
French Language	Bilingual communication.

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/.

Online Learning

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

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.

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.