

Louis Teitelbaum



Professional Experience

Since 2024

- **Co-author and Maintainer**
Data Science for Psychology: Natural Language <https://ds4psych.com>
An open-source, interactive textbook covering state-of-the-art methods for analyzing psychological properties of text, as well as the fundamentals of data visualization, data collection, and scientific methodology necessary to produce meaningful work in the field.

Since 2024

- **Research Assistant**
Collaboration with Google Jigsaw: Validating Classifiers for Manipulative Techniques
Lead role in research on new machine learning classifiers developed by Google. Regularly present findings to the Google team. Integrate theoretical framework on rhetoric with empirical findings on large, naturalistic datasets.

Since 2023

- **Data Analyst**
Autodesk | Internship Tel Aviv, Israel
Wrote complex SQL queries in Snowflake. Analyzed user behavior using R and ggplot2. Prepared presentations for Data Science and Data Analytics teams. Collaborated with UX Research team to develop evidence-based coding for data.

Since 2021

- **R Developer**
 - Developer of [wormsplot](#) for visualizing the movements of historical figures; Read the blog post.
 - Contributor to the [Quanteda](#) package for Natural Language Processing.

Since 2020

- **Cognitive Psychology Researcher**
Working Memory and Predictive Processing: - Thesis work under supervision of Prof. Yoav Kessler, Ben Gurion University
Language and Communication: - Thesis work under supervision of Prof. Bruno Galantucci, Yeshiva University Psychology Department - Developed novel Natural Language Processing (NLP) based metrics for diadic conversations using Python and R. - Wrote peer reviews - Designed research agenda and experimental paradigm for the continuation of research post-COVID-19
- **Power Dynamics in Long-Term Romantic Relationships:** - Research Assistant for Dr. Jenny Isaacs, Yeshiva University Psychology Department - Researched and designed survey for data collection. - Analyzed data in SPSS and R; finalized analysis for publication. - Logged over 200 hours as a primary contributor to project.

Education

2022

Present

- **M.A. in Experimental Cognitive Psychology**
Ben-Gurion University Be'er Sheva, Israel
Supervisor: Prof. Yoav Kessler

Contact Info

- louist@post.bgu.ac.il
 [Home Page](#) | [Blog](#)
 [GitHub](#) | [LinkedIn](#)

Languages

English - native
Hebrew - fluent

Technical Skills

Programming: R, Python, SQL, Git(Hub), SPSS, Excel

Documentation: (R)Markdown/Quarto, JupyterLab, Google Colab, Google Docs/Sheets

Design: ggplot2, Gimp, Photoshop, Inkscape

Deployment: Shiny, Streamlit

Machine Learning: Bayesian inference, multi-level modeling, logistic and binomial regression, PCA/SVD, random forest, elastic-net regression, k-means clustering, t-SNE, word/document embeddings, sentiment analysis

2018
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2021

- **B.A. in Psychology with Minor in Biology**
Yeshiva University Honors New York, NY
Graduated *Magna Cum Laude*

Activities and societies: Neuroscience Club President

Awards And Scholarships

Sep 2021

- **Chaplain Joseph Hoenig Memorial Award for Excellence in the Study of Psychology**
Yeshiva University Psychology Department New York, NY

Jan 2021

- **American Psychology-Law Society Grant for Undergraduate Research**
American Psychological Association Division 41: American Psychology-Law Society
For research in marital power dynamics in divorce mediation.

2021

- **Three funding awards from the Yeshiva University Honors Program**
Yeshiva University Honors Program New York, NY

Scientific Publications And Presentations

Books

- **Teitelbaum, L., & Simchon, A. (2024). *Data Science for Psychology: Natural Language*.** <https://zenodo.org/doi/10.5281/zenodo.10908366>

Papers

- **Teitelbaum, L., & Simchon, A. (2024). *Neural Text Embeddings in Psychological Research: A Tutorial With Examples in R*.** [Manuscript in preparation].
- **Teitelbaum, L., & Kessler, Y. (2024). *Perceptual Anticipation is Independent from Spatial Attention and Motor Preparation*.** [Manuscript in preparation].

Theses

- **Teitelbaum, L. (2021). *When faithful informational exchange is just not worth it: Reformulation ability as a predictor of other-initiated repair*** [Honors thesis, Yeshiva University]. Yeshiva Academic Institutional Repository.

Poster Presentations

- **Teitelbaum, L., & Galantucci, B. (2021). When faithful informational Exchanges are just too much work: Repair avoidance and reformulation cost.** Poster presented at the 2021 Association for Psychological Science (APS) Virtual Convention.
- **Teitelbaum, L., Isaacs, J., & Pittinsky, N. (2021). Is power all bad? Marital power imbalances and effective role division.** Poster presented at the 2021 Association for Psychological Science (APS) Virtual Convention.