

Personal Information

Name: Kevin Patyk

Date of Birth: August 4, 1993

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Languages: English (Native Speaker) & Polish (Fluent)

GitHub: <https://github.com/Kevin-Patyk>

Website: <https://kevinpatyk.netlify.app/>

Education

**Methodology and Statistics for the
Behavioral, Biomedical and Social Sciences**

MSc

Utrecht University

2022

Bachelor of Arts in Psychology

Texas State University

2017

Professional Experience

Researcher (2021-2022)

Institution: ASReview, *Utrecht University*

Supervisors: Ayoub Bagheri, PhD & Rens van de Schoot, PhD

Responsibilities:

- Using Python to apply & evaluate various text summarization algorithms (T5, BART, PEGASUS, BigBird-PEGASUS) on scientific articles using ROUGE metrics
- Using R to for web scraping and for automating the download of thousands of PDF articles
- Using GROBID to parse PDF articles into XML format
- Text cleaning & preprocessing using Python & R

Data Scientist (2019-2020)

Institution: Data Science Initiative, *Texas State University*

Supervisor: Alessandro De Nadai, PhD

Responsibilities:

- Using R & Mplus to analyze data & run statistical tests (structural equation models, logistic regression, multiple regression, factor analysis)
- Managing, cleaning, wrangling, recoding, & visualizing mental health data
- Communicating, reporting, & presenting results of analyses
- Training team members on data collection protocols & analysis methods

Statistics Intern (2019)

Institution: Department of Biostatistics, *Boston University*

Responsibilities:

- Using R & SAS to build a predictive multiple regression model
- Cleaning, recoding, wrangling, & visualizing big survey data provided by National Health & Nutrition Examination Survey (NHANES)
- Documenting methods & presenting the results at the conclusion of the project
- Attending educational courses & seminars on statistical methods & data science techniques

Statistician (2019)

Institution: Department of Psychology, *Texas State University*

Supervisor: Yueqin Hu, PhD

Responsibilities:

- Generating data using simulation methods in R
- Using R to build, implement, & deploy autoregressive & time series models
- Assisting with mathematical derivations

Statistician (2018-2019)**Institution:** Department of Psychology, *Texas State University***Supervisor:** Alessandro De Nadai, PhD**Responsibilities:**

- Using R to check logistic regression model assumptions, build multiple logistic regression models, & calculate odds ratios for a pediatric OCD study
- Pooling data & conducting analyses (effect sizes, confidence intervals, mean differences, standardized mean differences) for a large scale meta-analysis on pediatric anxiety
- Calculating quality adjusted life years (QALYs) & incremental cost-effectiveness ratios (ICERs) to examine the costs of pediatric anxiety & depression
- Visualizing data using R & Excel

Research Assistant (2016-2018)**Institution:** Department of Psychology, *Texas State University***Supervisors:** Crystal Oberle, PhD & Kelly Haskard-Zolnieriek, PhD**Responsibilities:**

- Using R to make contingency tables, obtain descriptive statistics & frequencies, & to run analysis of variance (ANOVA) models & hypothesis tests
- Coding, pooling, & quality checking data prior to running statistical analyses
- Coordinating & managing online data collection

Technical Skills

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| <ul style="list-style-type: none"> • R • Python • GitHub • Microsoft Excel | <ul style="list-style-type: none"> • SQL • SAS • Statistical Package for the Social Sciences (SPSS) |
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Scientific Publications & Presentations

- De Nadai, A. S., Quast, T., Little, T. B., Westerberg, K., Patyk, K., Monahan, M. F., Storch, E. A., & Gregory, S. T. (2022). Intervention cost-effectiveness for pediatric anxiety and OCD: A systematic review and integrated database model. *Journal of Affective Disorders*, 298, 110-118. doi: 10.1016/j.jad.2021.10.127
- Oberle, C.D., Klare, D. L., & Patyk, K.C. (2019). Health beliefs, behaviors, and symptoms associated with orthorexia nervosa. *Eating and Weight Disorders*.
- Patyk, K., Quast, T., Little, T. B., Westerberg, K., Monahan, M. F., Storch, E. A., Gregory, S. T., & De Nadai, A. S. (2020, March). Cost-effectiveness of interventions for pediatric anxiety and OCD. Symposium accepted for presentation at the annual meeting of the Anxiety and Depression Association of America, San Antonio, TX. (Conference canceled due to COVID-19)
- Rech, M., Weinzimmer, S., Geller, D., McGuire, J. F., Schneider, S. C., Patyk, K. C., De Nadai, A. S., Cepeda, S. C., Small, B. J., Murphy, T. K., Wilhelm, S., & Storch, E. A. (in press). Symptom trajectories of early responders and remitters among youth with OCD. *Journal of Obsessive Compulsive and Related Disorders*. doi: 10.1016/j.jocrd.2020.100580