

Daniel Fellman | Curriculum Vitae

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PROFESSIONAL SUMMARY

- Forward-thinking Researcher (PhD) with scripting skills in R and Python together with proficiency in conducting complex statistical analyses and a strong understanding of research methodologies.
- Effective and confident science communicator in three different languages (fluent written- and oral skills in Swedish, English, Finnish), with the ability to make complex data understandable for a broad audience using various data visualization techniques.
- Creative and self-motivated individual with a unique combination of detail-oriented mindset, driven personality, and social skills, as evidenced in nine peer-reviewed scientific articles and successful collaborations with Scandinavian and British researchers.

WORK EXPERIENCE

Umeå University | Umeå, Sweden

February 2019 - Present

Postdoctoral Research Fellow | Department of Applied Educational Science

- Collaborated with Hypocampus AB, a Swedish startup specialized on e-learning, to understand the relationship between study behavior and cognition.
- Built machine learning models (Random forest, Gradient boosting, XGBoost, Support vector classifier, Multilayer perceptron) for predicting future dropout rates on a web-based learning platform.

Åbo Akademi University | Turku, Finland

December 2018 - January 2019

Postdoctoral Research Fellow | Department of Psychology

- Used multilevel regression models in the R environment to examine the effects of cognitive training on a large-scale longitudinal data set collected via Internet.
- Employed Bayesian Inference in R for examining the causal role between user's cognitive performance and self-generated strategies.

Åbo Akademi University | Turku, Finland

November 2015 - November 2018

Graduate Researcher | Department of Psychology

- Built regression and anova models for hypothesis testing related to human cognition.
- Routinely used the R environment and SPSS for statistical analyses.
- Served as a statistical advisor for undergraduate students covering consultancies such as choice of analytical approach, execution of analyses, and interpretations of the results.
- Responsible for a university-level course titled "Behavioral Science", covering the basic principles in research methodology and psychometrics.

EDUCATION

Åbo Akademi University | Åbo, Finland

2015 - 2018

Doctor of Philosophy, Psychology, Cognitive Training

Åbo Akademi University | Åbo, Finland

2011 - 2015

Master of Arts, Speech Language Pathology

SKILLS

Programming: Python (numpy, pandas, scikit-learn, matplotlib), R (tidyverse, caret, ggplot2), SPSS

Data analysis: Machine learning (KNN, CART, SVM), hypothesis testing (e.g., Regression, Anova)

Databases: SQL (PostgreSQL)

Data visualization: Power BI, Tableau