TuuliPöllänen

about

tuuli.pollanen@gmail.com web-psychometrics.com www.github.com/tuuleh

languages

native Finnish fluent English/Slovene intermediate Swedish basic German

technology

JavaScript HTML & CSS R, Python GNU/Linux IRTpro, SPSS basic Git and SQL

interests

user experience research, front-end and web development, web-based experiments, statistics, psychometrics, cognitive and computational psychology

education

2012–2014 **MA, Psychology**

GPA - 3.8

Completed a module on cognitive neuroscience and advanced research methodology

Thesis: The influence of cognitive skills and team cohesion on performance in Multiplayer Online Battle Arena

2008-2012 **BA**, psychology

GPA - 3.6

Several research projects and literature reviews on computational and cyber

psychology

2012- **BS**, computer science

University of Ljubljana

University of Ljubljana

University of Ljubljana

experience

2013- Cyberpipe

Community manager / volunteer

Hosting talks on psychology and IT, volunteering as a mentor at programming workshops for kids, organized the new headquarters.

04-06 2014 **3fs d.o.o, Kranj**

Product manager / UX research intern

Product development, user experience and market research, QA testing.

03–05 2014 Hekovnik, Ljubljana

Freelancer - psychometrics and research design

Constructed a battery for discovering entrepreneurial potential in workshop

applicants.

03-04 2014 Diplo Foundation, Geneva

Freelancer - research methodology, text analysis

Worked together with a computational linguist to analyse patterns in contributions sent to a diplomatic conference on cybersecurity and internet gover-

nance.

03-05 2013 **Populus Landscape Architecture, Ljubljana**

Freelancer - survey methodology

and statistical analysis

Consulted a landscape architect on survey methodology; analysed and made inferences from data regarding architectural renovations in Tolmin.

applications and projects

2014	The anatomy of a gamer I built a Node.js application with 25-minute web-experiment consisting of surveys and cognitive taks for my research on how cognitive skills and team cohesion relate to player performance in League of Legends.
2014	Sudoku solver I wrote a Python script that solves any Sudoku puzzle using three heuristic strategies and recursive search. Try it out!
2014	Pilot study - The relationship between ambition, curiosity, educational expenditure and GDP per capita. Click here to read the paper. Me and a colleague triangulated data from a UNESCO database and the International Wellbeing Study to discover whether ambition and curiosity relate to macroeconomic variables.
2013	Psychometric Artificial Intelligence A literature review on psychometric AI - brute force solutions to solve tasks on intelligence tests
2013	Cognitive architectures and their use in cognitive psychology How cognitive architectures can be utilized on top of expert systems in applied cognitive psychology Only the paper of the
2012	Pilot study - Cyberbalkanization on Reddit Click here to read the summary. I wanted to find out whether opinion-based voting relates to ideological segregation on Reddit.

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presentations and talks		
2014	jsPsych on Node.js with Express 4.0 and Sequelize My experience designing and launching a web experiment on Node.js, thoughts about the data storage and on imputation of non-random missing data.	
2014	The advantages and challenges of web-based experiments Announcement, Blog post Technical challenges in design of web-based experiments for cognitive sciences, how to mitigate them, and how they manifest in the data.	
2014	The interplay between psychology and information technology I talked about how psychology is present in every aspect of technology, and how well-designed technology is a natural extension to our socio-cognitive processes.	
2013	Virtual reality exposure therapy to treat anxiety disorders How virtual reality overcomes barriers of care and enables exposure therapy in cases where it is otherwise impossible.	
2013	A reflection on psychometric artificial intelligence The use and abuse of psychometric tests in the creation of AI entities, and the practical applications and limitations of the PAI approach. Slides, Paper The use and abuse of psychometric tests in the creation of AI entities, and the practical applications and limitations of the PAI approach.	
2012	Cognitive architectures in applied cognitive psychology I explored how - and if - cognitive architectures can be utilized in applied cognitive psychology as an addition to expert systems.	
2012	Computer models of creativity A presentation on how different types of AI models carry relevance for modeling creativity.	
2011	Cognitive ergonomics, HCl and Nielsen's heuristics I presented the basics of human-computer interaction and cognitive ergonomics to my fellow psychology students.	