



# Bas Châtel

Psychobiologist / Computational Scientist

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## Github

github.com/popoiopo

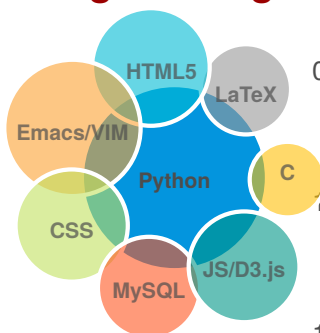
## LinkedIn

linkedin.com/in/bastiaan-  
chatel

## Personal Website

baschatel.nl

## Programming



## Experience

- 02/20 - Now **Researcher Ph.D. Candidate** Radboud University (Nijmegen)  
Complexity and multi-scale modeling to optimize gamified treatment of Loneliness in the Elderly. I am focusing on applying complexity science methods (e.g., network analysis, stability and tipping point analyses, computational modelling) regarding loneliness amongst the elderly. By employing these methods we want to gain insight in how loneliness works and how we can counteract this through the use of video games.
- 09/18 - 09/19 **Intern/Research Assistant** Institute of Advanced Study, University of Amsterdam  
While working on my Master thesis at the IAS I had the opportunity to work on how to quantify qualitative data obtained from structured interviews and turning this into system dynamics models regarding to Major Depression. My thesis revolved around investigating how mistakes in networks gotten from expert knowledge can result in unpredictable networks regarding to a whole system (i.e. given some fully known system, how do perturbations in its topology result in difficulties of approaching said system?).
- 07/18 - 12/18 **Intern, writing article for eLIFE** Van 't Hoff Institute for Molecular Sciences  
Writing an article for eLIFE about the different conformations of poly-glutamine with capped and non-capped termini.  
Supervisor: mw. dr. J. (Jocelyne) Vreede.
- 02/18 - 05/18 **Database Designer** TKI chemie  
Creating and designing a userfriendly multirelational database to provide a clear way to enter and use data.
- 06/17 - 09/19 **Data Query Specialist** Company.info (subdivision of FD media groep)  
Company.info is a company that specializes in selling information about other companies using "kamer van koophandel" information and others. My job is to rearrange data from this huge database using MySQL to create a customer friendly result.
- 03/17 - 06/18 **Assistent Information Manager** University of Amsterdam  
Being the link between regular employees and IT-personel, administrator of PLESK server, software/hardware cleanup for all departments at FMG faculty.
- 01/16 - 09/19 **Lead Data Management** Data management for clinical studies  
Providing datamanagement services for clinical studies. My tasks include database and process setup, data-entry and quality checks.
- 11/16 - 11/17 **Teaching Assistant** University of Amsterdam  
Teaching programming to, and grading students of the programming minor at the UvA. Students mainly work with C, HTML/CSS, JavaScript and Python.
- 05/16 - 11/17 **Teaching Assistant** Metis Montesorri Lyceum  
Writing and teaching the curriculum of a high school. New initiative to teach programming to high school students as a primary class.

## Personal Skills Education



2017 - 2020

### Master in Computational Science

School

A Computational Scientist tries to make sense of the world around him by searching for rules that can explain behavior of complex processes. It is a discipline concerned with the design, implementation and use of mathematical models to analyse and solve scientific problems.

2011 - 2016

### Bachelor's Degree in Psychobiology

School

As a psychobiologist you search for the biological background of psychological processes. With this knowledge you try to find an explanation for human behavior, and search for treatments for psychological disorders like autism, schizophrenia or Alzheimer's disease.

In my last year of psychobiology, I followed the programming minor at the UvA. Here I was schooled in multiple programming languages such as C, MySQL, PHP, HTML, CSS, PYTHON, JavaScript.

## OS Preference

Windows ★★★★★

MacOS ★★★★★

GNU/Linux ★★★★★

## Places Lived



2009 - 2011

### VWO Coornhert Lyceum

Finished VWO, high school

School

2004 - 2009

### HAVO Coornhert Lyceum

Finished HAVO, high school

School

## Other Info

### Participation in coding challenges:

- VAST 2016 Mini Challenge 2
- Google Hash Code Challenge 2017
- Google Hash Code Challenge 2018

### Simulation:

Created a website where an Ising model of depression can be simulated realtime which is now being hosted by Professor Denny Borsboom on <http://simulations.psychosystems.org/>. Here we expanded on a paper of Cramer et al. (2016) where we recreated their model and added interactivity where nodes can be turned on and of providing tools to investigate phenomena like tipping points and hysteresis. This website was written using flask and the site was hosted on a VPS that I configured myself.

### About myself:

My hobbies include programming (learning new libraries or visualization techniques), relaxing with a good show on or a few special beers with friends. I've especially developed an interest in the Emacs text editor and like tinkering with its configuration as well as optimizing my workflow by tweaking my computer to function exactly how I want it to. My blog, for example ([baschatel.nl](http://baschatel.nl)) is almost entirely written in org-mode which is an Emacs mode. If you'd like to know more about me, visit my personal site. Here you can see various tutorials, projects, simulations and visualizations that I've been working on.

May 17, 2020

Bas Châtel

## Languages

Dutch ★★★★★

English ★★★★★