



JANNIS ANDRIJA SCHNITZER

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BORN 20. JULY 1992 IN SCHWETZINGEN · GERMAN, SWISS

EDUCATION

Ruprecht-Karls-Universität Heidelberg

M. Sc. Physics (*ongoing*)

2016 –

Thesis: *Modelling the Origin of Life and Cells – Cellular Automaton-based simulation of the biochemical foundations of life*

- Chaotic, complex and evolving dynamic systems
- Computational Physics
- Scientific computing
- Scientific programming
- Time series analysis

B. Sc. Physik (*final grade: 1.4*)

2011 – 2016

Bachelor's thesis: *Analytic Solution of the Heston model's Fokker-Planck equation*

- Theoretical statistical physics
- Probability theory
- Statistics
- Financial mathematics
- Robotics

Carl-Friedrich-Gauß-Gymnasium Hockenheim

Abitur (*final grade 1.0*)

2002 – 2011

HONOURS AND AWARDS

- Scholarship of the *Studienstiftung des deutschen Volkes* (2011 – 2018)
- Abitur prizes (2011): Abiturpreis der Deutschen Physikalischen Gesellschaft, Abiturpreis der Deutschen Mathematiker-Vereinigung, Ferry-Porsche-Preis, Schulpreis Ökonomie, internal prizes from school
- business@school: first place in school-wide competition (2010)
- Hector-Seminar (2003 – 2010)

BUSINESS EXPERIENCE

EDG AG, Frankfurt am Main

Software Engineer

2017 –

- Go, Java, JavaScript (with vue.js and the occasional jQuery)
- Docker, Kubernetes, Bazel
- Microservices
- Infrastructure (CI/CD, test infrastructure – establishment of TDD, pipeline, regression and unit tests)
- Financial Engineering

Faculty of Mathematics and Computer Science, University of Heidelberg

Research assistant

2014 – 2017

- IT infrastructure operations (*heiCLOUD OpenStack*)
- Web page administration
- Administration of electronic locking system
- Media technology
- Client support

Mathematical Institute, University of Heidelberg

Research assistant

2014 – 2017

- Operation and administration of IT infrastructure
- Key software: Docker, Apache, Slapd, MIT Kerberos, Cyrus, OpenAFS, Puppet, bind, iptables
- Client support (about 70 users)

Student body (AStA), University of Heidelberg

Student associate

2011 – 2014

- Operation and administration of IT infrastructure
- Key software: Apache, Typo3, Slapd, MIT Kerberos, Cyrus, bind, iptables, ...

Aoide Networks GbR, Hockenheim

Executive partner

2010 – 2011

- Hardware trading
- Set-up and hosting of content management and shop software

HONORARY WORK EXPERIENCE

Maiball Heidelberg e.V.

Vice President

2015 –

- Organisation of an annual ball in the city hall of Heidelberg (since 2013)
- Founding member of the registered society/e.V. (spin-off from a *Studienstiftung* project)
- IT infrastructure operations and management
- Financial operations

Studentischer Akkreditierungspool

Auditor

2016 –

- Accreditation of study programmes
- 3 Audits in Gießen and Koblenz

Ruprecht-Karls-Universität Heidelberg

Member of the student body (*Fachschaft*)

2011 – 2017

- IT infrastructure operation and management
- Maintenance of a github.com/breunigs/gnt-eval fork
- Organisation of the study course evaluations (*from 2013*)

Member of the Physics Study Council

2013 – 2015

Member of the Faculty Council of the Department of Physics and Astronomy

2014 – 2017

Auditor (*internal accreditations*)

2013 – 2017

Interdisciplinary Forum Heidelberg

Organiser

2013 – 2016

- Re-foundation as a project under *Studienstiftung* patronage
- Organisation of semester-spanning lecture series
- IT operations

RESEARCH PROJECTS AND COMPETITIONS

- Practical course robotics: GPS-controlled autonomous car
Interdisciplinary centre for scientific computing, University of Heidelberg 2014
- Research project: Modelling and simulation of pattern formation in nature
Interdisciplinary centre for scientific computing, University of Heidelberg 2009
- Lead of the AG school website
Carl-Friedrich-Gauß-Gymnasium, Hockenheim 2008 – 2011
- Robotics team mentoring
Hector-Seminar, Mannheim 2008
- Internship: Graphical programming
Interdisciplinary centre for scientific computing, University of Heidelberg 2008
- Jugend forscht: Generation of timetables using a genetic algorithm
2nd place at the regional competition, Mannheim 2008
- Jugendsoftwarepreis: Cellular automaton based forest-fire simulation 2007
- Jugend forscht/Schüler experimentieren: Generating and solving Sudoku riddles
1st place at the regional competition, Mannheim
2nd place at the state competition, Stuttgart 2007
- Jugend forscht/Schüler experimentieren: Encryption of e-mail and chat messages
2nd place at the regional competition 2006
- Robotics competition
1st place, competition between teams from Heidelberg, Mannheim and Karlsruhe 2005

CONFERENCE ATTENDANCES AND GROUPS

- Chaos Computer Club Mannheim 2008 – 2011
Weekly seminars on IT topics
- 25th Chaos Communication Congress: »Nothing To Hide« 2008
Berliner Congress Center, Berlin
- SIGINT 2009 2009
KOMED, Mediapark, Cologne
- 26th Chaos Communication Congress: »Here Be Dragons« 2009
Berliner Congress Center, Berlin
- SIGINT 2010 2010
KOMED, Mediapark, Cologne
- 27th Chaos Communication Congress: »We come in peace« 2010
Berliner Congress Center, Berlin
- 28th Chaos Communication Congress: »Behind Enemy Lines« 2011
Berliner Congress Center, Berlin
- Chaostreff Heidelberg/NoName e. V. from 2011
Weekly seminars on IT topics
- 29th Chaos Communication Congress: »Not My Department« 2012
Congress Center Hamburg
- 30th Chaos Communication Congress 2013
Congress Center Hamburg
- 31th Chaos Communication Congress: »A New Dawn« 2014
Congress Center Hamburg
- 32th Chaos Communication Congress: »Gated Communities« 2015
Congress Center Hamburg
- 33th Chaos Communication Congress: »Works for me« 2016
Congress Center Hamburg
- 34th Chaos Communication Congress: »luwat« 2017
Congress Center Leipzig
- Gopher Meetup Frankfurt from 2017
Monthly meetups on IT topics regarding the Go programming language

IT KNOWLEDGE

Programming languages

- Go *since 2015*
- Java *since 2004*
- C *since 2005*
- Python *since 2007* – including SciPy/NumPy, Pandas, statsmodels, Bokeh; Django, ...
- C++ *since 2006*
- Ruby *since 2011* including Rails
- PHP *since 2006*
- SQL *since 2006*
- JavaScript *since 2008* including jQuery, vue.js, node.js
- Matlab *since 2011*
- Mathematica *since 2011*

- Erlang *since 2009*
- Haskell *since 2013*
- Objective-C *since 2008*

Infrastructure

- Docker
- Kubernetes
- Bazel
- Git

Operating systems (server and client administration)

- Windows 3 – 10
- Linux from Kernel 2.4
- macOS from 10.4

Server software

- Apache, Caddy, nginx, Tomcat
- PostgreSQL, MySQL, CouchDB
- Cyrus, Dovecot, Postfix
- slapd, Kerberos

Applications

- All common office software, Adobe Creative Suite
- LaTeX, HTML/CSS

LANGUAGES

- German *first language*
- English *proficient in verbal and written form*
- Japanese *basic knowledge*
- Italian *basic knowledge*
- French *basic knowledge*
- Turkish *basic knowledge*
- Latin *Latinum*

OTHER ACTIVITIES

Actor at *Theatergruppe Vogelfrei* 2013 –
under patronage of Germanistisches Seminar, Ruprecht-Karls-Universität Heidelberg

Singer (chamber choir) at *young vocals*, Eppelheim 2015 –

Heidelberg, 27. July 2018

Jannis Andrija Schnitzer