

# Stefan Luger, BSc

## Curriculum Vitae

Höhenweg 2  
4181 Oberneukirchen  
Austria  
☎ +43 (650) 551 3391  
✉ lug.stefan@gmail.com  
📄 sluger.github.io



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### Education

10/2013–01/2016 **Diplom-Ingenieur, Computer Science**, Johannes Kepler University (JKU), Linz, Austria.

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#### Master's Thesis

Title *Interactive Visualization of Provenance Graphs for Reproducible Biomedical Research*

Supervisors Marc Streit at JKU and Nils Gehlenborg at **Harvard, Boston, MA, USA**.

Summary In cooperation with the Harvard Medical School, I developed a novel graph visualization for the Refinery Platform ([www.refinery-platform.org](http://www.refinery-platform.org)). Skills: Data Visualization, Graphs, Full Stack Web Development, Linux, Scrum, Git

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#### Project in Software Engineering

*Workflow Visualization for The Refinery Platform*. Web-based visualization and front end design at JKU and **Harvard**. Skills: JavaScript, HTML, CSS, D3.js, SVG, JSON, Linux, Scrum, Git

10/2010–09/2013 **BSc, Informatics**, JKU.

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#### Bachelor's Thesis

*Constraint Generation and Partial Fixing for UML Models through Transformation*. Skills: Java, XML, UML, ATL, OCL, VCS

10/2005–01/2009 **Bioinformatics**, University of Applied Sciences Upper Austria, Hagenberg.

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#### Visualization Project

*RNAVis*. In cooperation with the Medical University of Vienna, I created a visualization framework for RNA data sets. Skills: Visualization, Java, XML, Prefuse, VCS

10/1999–10/2004 **Computer Science**, Höhere Technische Bundeslehranstalt, Neufelden, Austria.

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### Experience

08/2013–07/2015 **IT System Administrator**, JKU.

Server, soft-, and hardware infrastructure setup and maintenance. Setup and hosting of video conferences. Project assistant in the Lightfield displays domain. Skills: Linux, Hardware, 3D printing, AutoCAD, 3ds Max, Scripting.

- 03/2014–06/2014 **Teaching Assistant, JKU.**  
Guiding students during their hands-on lab exercises on computer graphics. Skills: C++, OpenGL, GLSL, Cuda, Visualization
- 03/2013–06/2013 **Teaching Assistant, JKU.**
- 09/2011–05/2012 **IT System Administrator, TMS Transport und Montagesysteme GmbH, Linz.**  
IT management responsibilities. Skills: SCCM, SQL, Scripting, Office, Windows
- 04/2008–08/2009 **Software Developer, Krankenhaus der Barmherzigen Schwestern, Linz.**  
Bioinformatics software interface for Microarray analysis. Skills: Java, SWT
- 07/2007–09/2007 **Web Developer, BlueGnome Ltd., Cambridge, UK.**  
Extending a Laboratory Information Management System. Skills: CGI, Linux

## Languages

- German **Native language**  
English **Full professional proficiency**

## Computer Skills

- Web Full Stack Web Development, JavaScript, HTML, CSS, jQuery, Django, AngularJS, REST, Node.js, Virtual Environments
- Data Information Visualization, D3.js, SVG, Graphs, Exploratory Data Analysis, Machine Learning, Python, R, Prolog, SQL, NoSQL
- Software Eng. Scrum, Requirements, Architectures, Design Patterns, Model-driven Engineering, Software Quality, Testing, Team-oriented, Git
- Programming Java, C, C++, C#, Haskell, Perl
- Miscellaneous Linux, Office, LaTeX, Bioinformatics, Virtual Reality, IT, Hardware, Medic

## Interests

Technology, Hardware, Linux, Astronomy, Volleyball, Music, Movies

## Honors & Awards

- Best Poster Award S. Luger, H. Stitz, S. Gratzl, N. Gehlenborg, M. Streit. *Interactive Visualization of Provenance Graphs for Reproducible Biomedical Research*. In Poster Compendium of the IEEE VIS Conference (InfoVis'15). Chicago, IL, USA. IEEE, 2015. **Presented at InfoVis'15, Chicago, IL, USA in October 2015.**

## References

### Marc Streit

Institute of Computer Graphics  
Johannes Kepler University Linz  
4040 Linz, Austria  
✉ marc.streit@jku.at  
☎ +43 (732) 2468 6635

### Nils Gehlenborg

Dept. of Biomedical Informatics  
Harvard Medical School  
Boston, MA 02115  
✉ nils@gehlenborg.com  
☎ +1 (617) 432 1535