Christian Bock ● Goethestrasse 21 ● 68723 Schwetzingen ● Germany ● +1 206 960 8631 ● chrs.bock@gmail.com ● www.christianbock.info

# CURRICULUM VITAE

## Education

04/2015 – Present
**University of Heidelberg, Germany**
M.Sc. in Medical Informatics

10/2011 – 03/2015
**University of Heidelberg, Germany**
B.Sc. in Medical Informatics, final grade: 1.4 (equivalent to A-)
Rank: 1/16 (Top 10%)

Relevant Coursework
Biological and Chemical Methods of Bioinformatics, Theoretical Foundations of Bioinformatics, Systems Biology, Statistical Genetics, Bioimaging, Data Analysis and Data Mining, Information Management and Databases, Scientific Computing

09/2001 - 07/2010
**Hebel-Gymnasium Schwetzingen, Germany**
High School Certificate, final grade: 1.4 (equivalent to A-)

## Work Experience

10/2014 – 09/2016
**SAP SE (SAP Innovation Center), Walldorf – Working Student**
- Work for the SAP Connected Health Platform
- Contribute to frontend and backend development utilizing technologies like jQuery, d3.js, SAPUI5, SQL, and JavaScript
- Implement complex interactive visualizations and efficient database queries for an interactive genome browser
- Develop specific, genome-centric visualizations for academic partners

04/2013 – 03/2014
**SAP AG, Walldorf – Working Student**
- Developed a checking report for customers of SAP's solution for hospitals to reduce maintenance effort
- Developed a quick-start program which enables customers to start implementing a Service Oriented Architecture (SOA)

11/2012 – 09/2013
**Startup-Netzwerk SUN e.V. – Co-Initiator and Head of Development**
- Initially deployed and further developed startup network for scholarship holders (around 1000 active members)
- Led a team of four web developers in the creation of a web community for young entrepreneurs (www.startupetzwerk.org)

10/2011 – 03/2013
**SAP AG, Walldorf – Working Student**
- Created management reports and prepared quarterly business reviews
- Supported the Continuous Improvement Process from submission of the problem to rollout of the solution
- Assisted in preparation and execution of workshops and information events

## International Experience

09/2016 – present
**Visiting Student, University of Washington, Seattle**
- Author my master's thesis in Professor Sean D. Mooney's lab at the department for Bioinformatics and Medical Education
- Assessor of the Critical Assessment of protein Structure Prediction (CASP12) to evaluate how well structure predictions can be used to predict the pathogenicity of amino acid substitutions

03/2014 – 08/2014
**Visiting Student, University of Washington, Seattle**
- Completed bachelor's thesis in Professor George Demiris's lab at the department for Bioinformatics and Medical Education in collaboration with Microsoft Research
- Conducted a literature review of the current situation of sensor systems in older adult residences
- Developed a real-time web application that visualizes sensor data for older adults and their family members

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# CURRICULUM VITAE

## Skills

| | |
|---|---|
| Languages | German: native speaker<br>English: fluent<br>French: basic knowledge |
| Programming Languages | Python, JavaScript, JAVA, C#, SQL, ABAP, SQLScript, R |
| Software related Skills | UML, HTML5, CSS3, jQuery, d3.js, node.js, mongoDB, dygraphs.js, HL7V2, HL7 FHIR, MATLAB, SAP HANA, Git |

## Honors and Scholarships

| | |
|---|---|
| 10/2011 – Present | Full undergraduate and graduate Scholarship, *Friedrich-Ebert Foundation* |
| 10/2015 | Award for graduating top of class, *Ernst-Franz Vogelmann Foundation* |
| 07/2016 | Full scholarship to participate in IPHIE Master Class in Salt Lake City, *University of Heidelberg and Heilbronn University* |
| 07/2010 – Present | Online scholarship, *E-Fellows.net* |

## Research Experience

Publications

- **Bock C**, Demiris G, Choi Y, Le T, Thompson HJ, Samuel A, Huang D. Engaging Older Adults in the Visualization of Sensor Data facilitated by an Open Platform for Connected Devices. Technology and Health Care, vol. 24, no. 4, pp. 541-550, 2016
- **Bock C**, Le T, Samuel A, Huang D, Thompson HJ, Demiris G. Visualizing Sensor Data Through an Open Platform for Connected Devices. 15th World Congress on Health/Medical Informatics Medinfo 2015; 216:964.
- Demiris G, Le T, **Bock C**, Thompson H, Samuel A, Huang D, Phanishayee A. Privacy considerations for the visualization of longitudinal activity and environmental data generated by smart home applications for older adults. The Gerontological Society of America's 68th Annual Scientific Meeting; 2015 Nov 18-22; Orlando, FL, USA
- Devine B, Khelifi M, Keyloun K, Hendrix N, Mathias P, **Bock C**, Tarczy-Hornoch P. Characterizing the Frequency of Pharmacogenomic Biomarker-Guided Prescribing for Drugs with Pharmacogenomic Biomarker information in the FDA Labelling: A Pilot Study Using Data from an Electronic Health Record. Poster presentation at: AMIA 2015 Annual Symposium, November 14-18; San Francisco, CA

Research Interests: Precision Medicine, Genomics, Machine Learning, Data Visualization, Telemedicine

## Extracurricular Activities

03/2012 – 03/2014 **University of Heidelberg and Heilbronn University – Student Representative**

- Organized, planned and executed weekly meetings for Medical Informatics students
- Participated in weekly dialogue with the program director
- Prepared and implemented semi-annual general assembly of Medical Informatics students

Civilian Service 08/2010 - 01/2011 **National Center for Tumor Diseases (NCT), Heidelberg**

- Prepared tumor tissue for further analysis by the pathologist
- Maintained Microsoft Access Database of patient and cancer data