

# Curriculum vitae

## Personal

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Name	Sandra Posch
Address	Harrachstraße 18, 4020 Linz
Date of birth	November 1 <sup>st</sup> , 1987
Nationality	Austrian



## Education

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2012 - 2015	PhD study at the Institute of Biophysics, Project: Inter- and intramolecular interactions of VWF studied by AFM
2010 – 2012	Master studies in Biophysics with focus on biophysical properties of platelet activation at the Johannes Kepler University in Linz
2008 – 2011	Bachelor studies in Environmental system sciences at the Karl Franzens University in Graz
2007 – 2010	Bachelor studies in Physics at the Karl Franzens University in Graz
2002 - 2007	High school “HTL 1” for Construction and Design in Linz
1998 – 2002	Secondary modern school in Bad Ischl

## Awards and Scholarships

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- Merit scholarship for bachelor studies in Physics (2009)
- OÖ Scientists Award 2013, Winner of the young-scientists award
- Scholarship grants in 2013, 2014 and 2015

## Attended conferences

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- Summer University – Graz in Space 2009 and 2010
- Litschau ÖGMBT, Single Molecule Study Group 2012 – poster presentation
- Nanoforum, JKU Linz 2013 – oral presentation
- Bionanotechnology – Recent Advances 2013, Sesimbra – oral presentation
- 9<sup>th</sup> European Biophysics Congress EBSA 2013, Lisbon – poster presentation
- 58<sup>th</sup> Annual Meeting of the Biophysical Society 2014, San Francisco – oral presentation
- ÖGMBT annual Meeting 2014, Vienna – oral presentaion

- International Scanning probe microscopy Meeting 2014, Seoul – oral presentation
- Biomarker and Thrombocytes Meeting 2014, Linz, organized by the “Gesundheitscluster”
- Research and Collaboration Meeting 2015, Buenos Aires – oral presentation
- International Scanning probe microscopy Meeting 2015, Buzios – poster presentation
- 1st international SHENC Symposium, 2015, Hamburg – poster presentation
  
- Shenc project meetings, 2 x 2013 in Jülich and Munich, 3 x 2014 in Linz, Bonn and Hamburg – oral presentations
- Biophysical Winter School, JKU Linz 2010, 2011– doing demo sessions, 2012, 2013, 2014, 2015 doing demo sessions + oral presentation
- Biophysical Winter Workshop, JKU Linz 2010, 2011, 2012, 2014, 2015 – poster presentation, 2013 oral presentation

## Academic experience

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2009 – 2010	Scientific assistant (tutor), Karl Franzens University Graz
2010	Wegener Center for Climate and Global Change, Graz, Working on the project WegenerNet (climatological stations in Feldbach, Styria)
2011/2013	“Lange Nacht der Forschung” – doing demo sessions
2012	Practical training (3 month) in connection with my master thesis, Institute of Biomedical Technology, Tampere, Finland
2013	Students information fair, guide in the studies of Physics
2013 - 2015	Scientific assistant (tutor), JKU Linz
2014	Writing a project proposal
2015	Seminar attendance: Valuable IP for business success

## Publications and public relations

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- Posch, S., I. Neundlinger, M. Leitner, P. Siostrzonek, S. Panzer, P. Hinterdorfer and A. Ebner (2013). "Activation induced morphological changes and integrin  $\alpha$ IIb $\beta$ 3 activity of living platelets." *Methods* 60(2): 179-185.
- Posch, S., M. Brehm, T. Obser, R. Tampè, R. Schneppenheim and P. Hinterdorfer (2013). "Biophysical properties of VWF in single molecule force spectroscopy." *European Biophysical Journal* 42, July 2013.
- Aponte-Santamaría, C., V. Huck, S. Posch, A. K. Bronowska, S. Grässle, M. A. Brehm, T. Obser, R. Schneppenheim, P. Hinterdorfer, S. W. Schneider, C. Baldauf and F. Gräter (2015). "Force-Sensitive Autoinhibition of the von Willebrand Factor Is Mediated by Interdomain Interactions." *Biophysical*

Journal 108(9): 2312-2321.

- Posch (2015). "Collagen Surface Functionalization - A New Strategy for Molecular Recognition Force Spectroscopy." *Imaging & Microscopy* 17 March 2015(1).
- Posch, S., R. Schwarzl, C. Aponte-Santamaría, A. Karner, M. Radke, F. Gräter, T. Obser, G. König, M. A. Brehm, H. J. Gruber, R. F. Gräter, Schneppenheim, R. Tampé, P. Hinterdorfer. "Mutual A domain interactions in the force sensing protein von Willebrand Factor." *Journal of Structural Biology*, in preparation
- Cover design for the "Biophysical Journal" (Vol.101, Issue 7, 2011) and the journal "Methods" (Vol. 60, 2013)
- Newspaper article about me in „Oberösterreichische Nachrichten“, „Ihr liegt die Forschung im Blut“, 2013
- Book article about me in "Pioneers - Female in science", Volume 4, 2014