

SABIN ZAHIROVIC

School of Geosciences, Madsen Building F09, The University of Sydney, NSW 2006

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EDUCATION

University of Sydney (2011 -)

Ph.D. Candidate

Area of research: Global Paleozoic plate reconstructions to study dynamic topography, eustatic and regional sea level, paleogeography and mantle overturn cycles

Supervisors: Prof Dietmar Müller, Dr Maria Seton

Achievements: LA Richardson Memorial Prize in Geophysics

Australian Postgraduate Award

Vice-Chancellor's Research Scholarships

University of Sydney (2010)

Bachelor of Science and Technology (Geophysics Honours)

Title: Linked plate motion and mantle convection models of the India-Eurasia collision

Supervisors: Prof Dietmar Müller, Dr Maria Seton and Dr Joanne Whittaker

Achievements: Honours Class I, Mark: 97

University Medal

GSA Scholarship

AIG Bursary

University of Sydney (2006 to 2008)

Bachelor of Science and Technology (Geology and Geophysics / Geography)

Achievements: SCIWAM of 80

Edgeworth David Prize in Palaeontology

WH Maze Prize in Intermediate Geography

Quodling Testimonial Prize for Crystallography and Petrology

Geographical Society of NSW Student Award

Ashfield Boys' High School (2000 to 2005)

Achievements: School Captain and Dux of 2005, UAI of 98.95, Premier's Award

University of Sydney (2004)

Summer School Course: Problem Solving and Communication in Science

TECHNICAL STRENGTHS

- Advanced GIS skills in ArcGIS, GPlates, Didger, QGIS, etc.
- Geodynamic models with linked plate kinematics (GPlates) and mantle convection (CitcomS)
- Plate tectonic reconstructions, Tethyan dynamics, India-Eurasia collision, SE Asian tectonics, Active and inactive plate boundaries
- Data manipulation with shell scripts
- Advanced mapping and data manipulation with Generic Mapping Tools (GMT)
- Familiarity with Operating Systems: Mac OS X, Windows, Unix
- Extensive use of parallelised super-clusters and shared memory super-computers

- PESA 2-day industry short course: “Measurement Principles of Down Hole Logging Tools and Basic Petrophysics”
- Proficiency in field geology including mapping, structural analyses and geological histories
- Extensive experience in petrographic microscopy of ore and non-ore minerals
- Understanding of the geological settings responsible for the formation and hosting of ore minerals and hydrocarbons; with
 - two weeks of field experience mapping Broken Hill-related formations and,
 - half semester of a Virtual Petroleum Exploration Exercise based on Exxon training principles
- Experience with river and coastal management strategies, including the surveying of beach profiles and hydrodynamics using high precision RTK-dGPS and Nikon base stations
- Proficiency in combining spatial data and ArcGIS capabilities to model natural systems including natural hazards, pollution source and dispersal pathways, and other applications
- Long-term experience with HTML and MS Office applications, and competency in advanced analytical features of Microsoft Excel
- Some experience with Matlab, Surfer, Java, SQL, Python, Visual Basic

WORK EXPERIENCE IN GEOSCIENCE

Lab Demonstrator **The University of Sydney** **NSW Australia**

Supervisors:
Dr Adriana Dutkiewicz, Dr Maria Seton

2010 –

- Senior Unit: Environmental and Sedimentary Geology
- Intermediate Unit: Oceans, Coasts and Climate Change

Research Assistant **The University of Sydney** **NSW Australia**

Supervisors:
Prof Dietmar Müller, Dr Maria Seton

2008 –

- Testing and helping in the development of GPlates open-source plate tectonic reconstruction software available from www.gplates.org
- Mapping active and inactive global plate boundaries
- Contributing to EarthByte plate motion model
- Producing research material, maps and datasets

Research Assistant **Shell Oil/EarthByte**

Supervisors:
Prof Dietmar Müller and Malcolm Ross

2008 – 2009 (6 months)

- Plate tectonic reconstructions of SE Asia using GPlates
- Testing relative plate motions
- Implementing alternative plate motion models of the region

COMMUNITY INVOLVEMENT

- Wests Ashfield 2005 Community Citizenship Award
 - \$3000 for the school
 - \$1000 for my chosen charity – the Exodus Foundation in Ashfield
- Anzac Day marches, recognised in Federal Parliament
- Regular charity involvement in Red Cross Calling, Balkan Express and Salvation Army's Red Shield Appeals
- Red Cross blood donor
- General involvement in the running of events such as commemoration ceremonies, eulogies, harmony days, open nights, drama days and assemblies at Ashfield Boys' High School

Letters of reference and academic transcripts available on request

Last modified: 18 February 2011
