

Curriculum Vitae

Personal information

Surname / First name

Address

Telephone

Personal Email

Nationality

Date of birth

Gender

PD Dipl. geophys. Dr. Immo TRINKS

Staudgasse 64/2, 1180 Vienna, Austria

+43 699 1520 6508 Mobile: +43 660 972 1010

immo.trinks@archpro.lbg.ac.at / trinks@gmail.com

German

October 10th 1972

male (married, two children, 7 and 9 years of age)

Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

April 2017 – present

Vice Director

Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology

Management of the institute in collaboration with its director Prof. Wolfgang Neubauer. R&D concerning terrestrial and marine near-surface geophysical prospection.

Ludwig Boltzmann Gesellschaft, NuSSdorfer StraSSe 64, 1090 Vienna, Austria

Tel +43 (0)1 513 27 50 / Fax +43 (0)1 513 23 10 / office@lbg.ac.at

Academic, Research and Development

Dates

Occupation or position held

Main activities and responsibilities

April 2012 – March 2017

Head of Research and Development

Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology

Coordinating the research and development programme of the institute in collaboration with its director Prof. Wolfgang Neubauer

Dates

Occupation or position held

Main activities and responsibilities

July 2010 – April 2012

Key-researcher Geophysical Archaeological Prospection

Ludwig Boltzmann Institute for Archaeological Prospection and Virtual Archaeology

Scientific leadership of research Programme Line 2 (large-scale, high-resolution geophysical prospection surveys in Austria and abroad, development and improvements of efficient, motorized geophysical measurement systems, novel data processing and visualisation software and measurement methodology), dissemination and publication of results.

Dates

Occupation or position held

Main activities and responsibilities

March 2005 – June 2010 (currently off-duty)

Development and Exploration Geophysicist

Responsible for the development, start-up and operation of a professional archaeological prospection unit at the Swedish National Heritage Board. Planning of system configuration, hardware acquisition and software design. Marketing, organization and execution of some 50 archaeological prospection surveys. Acquisition, processing, interpretation and presentation of high-resolution geophysical data.

Name and address of employer

Swedish National Heritage Board, Contract Archaeology Service, Instrumentvägen 19, 126 53 Hägersten, Sweden

Type of business or sector

State department / Commercial service provider

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>June 2004 – February 2005</p> <p>Senior Research Associate</p> <p>Development of an interactive 3D visualization and interpretation software for 3D laser scanner data of geological outcrops (the virtual outcrop) and development of a novel data processing and visualization method for the recording of pre-historic rock art using laser scanning.</p> <p>3D and 4D visualization of micro seismicity for the analysis of fracture zones and fracture propagation (earthquake studies and induced fracturing in reservoirs).</p> <p>Durham University, Department for Earth Sciences, e-Science Research Institute, South Road, Durham DH1 3LE, England</p> <p>Academic, Research institute</p>
<p>Education and training</p>	
<p>Dates</p> <p>Title of qualification awarded</p> <p>Subject</p> <p>Name of University</p>	<p>December 20th 2016</p> <p>Lehrbefugnis (venia docendi)</p> <p>Oberflächennahe Geophysik (Near Surface Geophysics)</p> <p>Technische Universität Wien, Vienna</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/Occupational skills covered</p> <p>Name of University</p>	<p>October 1999 – February 2004</p> <p>Doctor of Philosophy (PhD Cantab)</p> <p>Geophysics (Thesis title: <i>Travel-time tomography of densely sampled seismic data</i>)</p> <p>Development of a 2D seismic travel-time tomography algorithm for velocity and interface inversion of reflection and refraction data. The forward modelling is performed using ray tracing in an adaptive triangulated velocity model. The linearised inversion minimizes the misfit between observed and modelled data and results in a velocity-depth model that may be used as starting model for full waveform inversion. The algorithm was successfully tested on synthetic data of a realistic crustal model and on real exploration seismic data from the north east Atlantic Margin.</p> <p>Cambridge University, Department of Earth Sciences, Bullard Laboratories, UK</p> <p>Supervisors: Prof. Satish Singh, Dr. Penny Barton, Prof. Chris Chapman</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/Occupational skills covered</p> <p>Name of University</p>	<p>January 1996 – June 1999</p> <p>Diploma in Geophysics (Dipl. geophys.) – “very good”</p> <p>Applied geophysics, General geophysics, Theoretical Geophysics, Geology, Physics</p> <p>Near surface geophysics / Geophysical archaeological prospection</p> <p>Thesis title: <i>Processing and Visualization of 4-D Georadar Data</i></p> <p>Christian-Albrecht’s University, Kiel, Germany</p> <p>Supervisor: Dr. Harald Stümpel</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/Occupational skills covered</p> <p>Name of University</p>	<p>November 1993 – December 1995</p> <p>Pre-diploma in Geophysics – “good (1.9)”</p> <p>Applied geophysics, General geophysics, Applied Physics, Theoretical Physics, Mathematics, Chemistry, Mineralogy</p> <p>Ludwig-Maximilian’s University, Munich, Germany</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Principal subjects/Occupational skills covered</p> <p>Name of organization</p>	<p>September 1992 – October 1993</p> <p>Civil service</p> <p>Geophysical archaeological prospection, Topographic surveying, Assistance in the archive for aerial photographs</p> <p>Bavarian State Department for Historical Monuments, Munich, Germany</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Name of school</p>	<p>1992</p> <p>Abitur (A levels) – “good (1.9)”</p> <p>Camerloher Gymnasium Freising, Germany</p>

Skills and competences

Mother tongue

Other languages

*Self-assessment
European level^(*)*

English

Swedish

Modern Greek

French

Other skills and
competences

German

English, Swedish, Modern Greek, French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
C2	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user
A2	Basic user	A2	Basic user	B1	Independent user	A2	Basic user	A2	Basic user
B1	Independent user	B1	Independent user	A2	Basic user	A2	Basic user	B1	Independent user

^(*) Common European Framework of Reference (CEF) level

Scientific authoring:

Comprehensive experience in scientific publishing as first-author and co-author of so far 21 peer-reviewed articles, 57 conference abstracts, 6 book chapters, 17 non-peer reviewed articles, 23 geophysical survey reports and one extensive edited conference volume.

Grant and third-party funding acquisition:

Main author of six successful grant applications (total value of € 118,600), co-author of three successful grant applications (total value of € 678,000), and substantial contributor to the short and long proposals for the setup of the LBI ArchPro, resulting in a total funding budget of well over € 7 millions.

Geophysical prospection experience:

Participation and scientific responsibility for geophysical prospection surveys in connection with LBI ArchPro Case studies conducted at Akrotiri (Thera), Stonehenge, Bisenzio (Italy), Uppåkra, Birka and Gamla Uppsala (Sweden) and Vestfold County (Norway).

Responsibility for 55 near surface geophysical prospection surveys conducted in Sweden, Norway, The Netherlands and on Cyprus between 2005 and 2010 and participation in georadar test surveys in Austria in 2005.

1999: Responsibility for magnetic prospection of the ancient town of Milet (Turkey).

2000: Geomagnetic prospection of the Roman town of Carnuntum (Austria) in collaboration with the Vienna Institute for Archaeological Science and the Inst. for Meteorology and Geodynamics in Vienna.

1996–1999: Participation in numerous geophysical surveys for archaeological prospection (magnetics, shear-wave-seismic, georadar) in Milet (Turkey), Selinunte (Sicily), Sarissa (Zentral-Anatolia), Dreislar, Trier, Wallendorf, GroSS Strömkendorf (Wismar).

2012: Participation in the organization of the Geophysics Workshop of the Initiative College for Archaeological Prospection, February 27th - March 1st, Vienna.

2012/13: Participation in the organization of the 10th International Conference on Archaeological Prospection 2013 in Vienna.

Computer skills and competences

Operating systems: Linux (Ubuntu, Suse, Red Hat, Fedora, Mandrake) very good / Windows (XP, 7, 10) very good / Unix good / Mac OSX good

Office applications: *Microsoft Office*, \LaTeX , *OpenOffice* very good

Scientific software: *Seismic Unix* very good / *ProMAX* & *FOCUS* good / *ReflexW* very good / *MATLAB* good / *Generic Mapping Tools* very good / *T3D* good / *Surfer* good / *ArcMap 9.3* & *10* good / *Adobe Acrobat Professional* good / *Adobe Photoshop* & *GIMP* good / *VTK* good / *TclTk* good / *ImageMagick* good

Programming: *C++ (g++)* very good / *C (gcc)* good / *Fortran* basic knowledge / *bash-scripting* good / *awk* & *sed* good

Driving licences

- Clean European driving license, issued in Germany 1996
- License for recreational/sport boats (German Sportbootführerschein See)
- Int. certificate for operators of motorized pleasure craft on inland waters (10 m)

Memberships

- EAGE (European Association of Engineers and Geoscientists)
- ISAP (International Society for Archaeological Prospection)
- AGS (Austrian Geophysical Society)

Scholarships

- LITHOS studentship Cambridge University 1999 - 2004
- Selwyn College Cambridge Studentship 1999

Scientific recognition

- 2019: Associate Editor of the Wiley journal *Archaeological Prospection*
- 2017: Management Committee member of the Austrian Geophysical Society
- 2015: Management Committee member of the Int. Society for Archaeological Prospection
- 2013: Invited Management Committee member of the COST Action TU1208 'Civil Engineering Applications of Ground Penetrating Radar'.
- 2012: Invited member of the Scientific Advisory Board of the German Research Foundation Focus Programme 'Häfen von der Römischen Kaiserzeit bis zum Mittelalter'. <http://www.spp-haefen.de/de/das-schwerpunktprogramm-1630/advisory-board/>
- Invited reviewer for the scientific journals *Near Surface Geophysics*, *Archaeological Prospection*, *Journal of Geophysics and Engineering* and *Water Resources Research*.
- Invited independent expert referee for proposals submitted to the European Research Council.

Soft skills

- Leading by example, progressing as a team
- Where applicable, scrum and sprint approach to agile project management
- Diplomatic conflict resolution skills due to highly international background
- Responsible for the formulation of tendering documents for the University of Vienna for acquisition of a € 175,000 multi-beam sonar system