

Master Studies in Earth Science AT Uppsala University SWEDEN

Konstantinos Thomaidis Master Student in Earth Science

Hall D22

School of Science Wednesday 1 April, 12:00



Την Τετάρτη 1 Απριλίου 2015 έγινε παρουσίαση - ενημέρωση σχετικά με το πανεπιστήμιο της Ουψάλα (Σουηδία), το μεταπτυχιακό του πρόγραμμα στις Γεωεπιστήμες (κατευθύνσεις, μαθήματα), τις προϋποθέσεις αποδοχής κλπ.

Η παρουσίαση έγινε από τον Κωνσταντίνο Θωμαΐδη, μεταπτυχιακό φοιτητή και πρεσβευτή (ambassador) του πανεπιστημίου Ουψάλας και απόφοιτο του Τμήματός μας.











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Quality, knowledge and creativity since 1477









University Main Building





University Main Building





Uppsala University in brief



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 \blacksquare Three disciplinary domains: humanities and social sciences
 ¤ medicine and pharmacy \blacksquare science and technology iii Nine faculties - over 50 institutions¤ Revenue – 5,500 mn SEK × 40,000 students, approximately 23,000 full time students ¥ 600 professors ¤ 6,300 employees

A complete university



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Pharmacy

Arts



Law



Languages



Education



Medicine



Science & Technology



Social Sciences



Theology

Education and Research in figures



- 70 programmes for beginners and 60 master programmes
- Over 2,000 single-subject courses
- 5,000 undergraduate and postgraduate degrees every year

- 300 doctorates every year
- ¥ 4,500 academic publications per year



Internationalisation



- 39 international Master programmes and close to 800 single subject courses in English.
- Student exchanges with almost 400 universities abroad in 50 countries.
- In 2012 about 4,400 articles were published by researchers at Uppsala University, written in collaboration with about 10,300 foreign scientists, +29% compared to 2011.



International Master Programs at the Faculty of Science and Technology



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Applied Biotechnology Bioinformatics Biology Chemistry Computer Science Computational Science Earth Science Embedded Systems

Mathematics Molecular Biotechnology Physics Sustainable Development Wind Power Project Management



Tradition and culture



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× Oldest Nordic University – founded in 1477
× Eight Nobel Prizes
× Museums and Music
× Academic Ceremonies
× Walpurgis Night – 30 April
× Student Nations (Student Clubs)



Nobel Laureates



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Allvar Gullstrand – Nobel Prize in Physiology and Medicine 1911 Robert Bárány – Medicine 1914 Manne Siegbahn – Physics 1924 The Svedberg – Chemistry 1926 Nathan Söderblom – Nobel Peace Prize 1930 Arne Tiselius – Chemistry 1948 Dag Hammarskjöld – Nobel Peace Prize 1961 Kai Siegbahn – Physics 1981

Some historical Uppsala profiles





Jacob Ulvsson



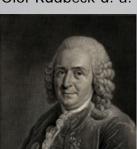
Olof Rudbeck d. ä.



Johan Skytte



Ellen Fries



Carl von Linné



Gerd Enequist



Anders Celsius



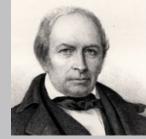
C W Scheele



Nils Rosén



Betty Pettersson



Erik Gustaf Geijer



Anders Ångström

Uppsala University is doing well



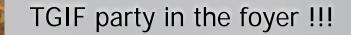
- Expanding significantly
 New record in no. of applicants, again
 Securing major research
 - funding

- Top ranked research and education
- Good outcome in evaluations
- Large proportion ERC grants to UU



Student life











Requirements



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Proficiency in English:

TOEFL: mark 4.5 in the written test, 575 (paper-based test); mark 4.0 in essay writing and a total score of 213 (computer-based); mark 20 in the written test, score of 90 (Internet-based).
IELTS: An overall mark of 6.5 and no section below 5.5.
Cambridge: CAE, CPE.

Bachelor degree

Programme specific requirements



Tuition fees and scholarships



- Master programmes in Medicine, Pharmacy, Science and Technology SEK 145,000 (Approx. USD 20.000)
- Master programmes in Arts, Humanities, Social Sciences, Theology is SEK 100,000/120 000 (Approx. USD 15.000)
- X Application fee: SEK 900 (Approx. USD 135)
- Uppsala University offers a few scholarships to cover tuition fees to non-EU/ EEA students. More info: <u>www.uu.se/education</u>
- The Swedish Institute also administers scholarships. More info: <u>www.studyinsweden.se/scholarships</u>

Application



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¤ October 15th, 2015

The application period will begin and the online application will open.

X January 15th, 2016

Last date for applying for the 2014/2015 academic year.

¤ February 2nd, 2016

Last date for submitting documents to University Studies in Sweden.

Online application only:

www.universityadmissions.se/intl/start

















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UU offers one of the broadest Masters programmes in Earth Sciences

- ¤ Geology
- **¤** Hydrology
- ¤ European paleobiology (UU-Sweden, Lille-France)

Department of Physics provide options for Geophysics and Meteorology



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Courses in the first part of the first semester are common to all specialization:

- 1 period
- Dynamics of Earth Systems Global Change
 Applied Geoinformatics for Earth Sciences
 period
- Presentation and publication

In the second and third semester subjects relate to chosen specialisation

Geology



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Applied research is focused on:

- exploration and development of resources such as metals, hydrocarbons, geothermal resources

- volcanic processes and hazards
- The Hans Ramberg Tectonic Laboratory is the foremost facility in Scandinavia for tectonic modeling at various scales







The Geology specialization contains core subjects in: 1 semester X Analytical Methods in Earth Sciences 2 semester X Mineralogy & petrology **¤**Regional geology **¤**Field project 3 semester × Natural resources **Tectonics**





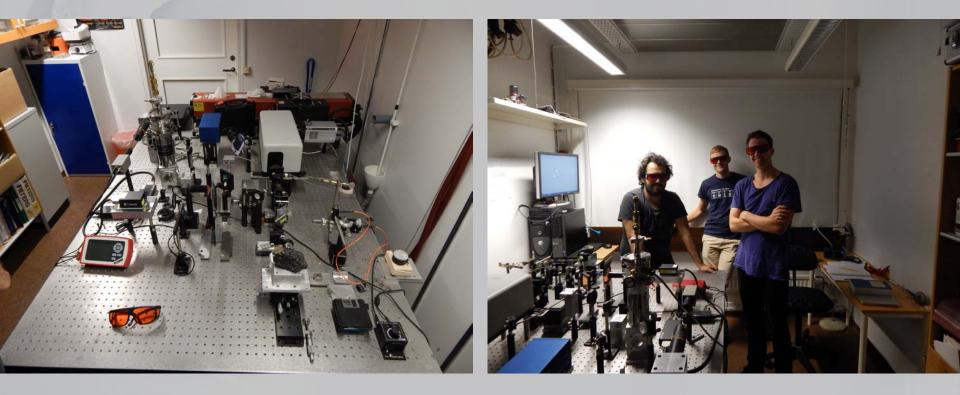
Jeol Hyperprobe Uppsala University







Raman Spectroscopy lab



Hydrology - hydrogeology



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Research at the department follows the strongly interlinked research areas:

- Surface Water Hydrology and Climate
- Subsurface Hydrology (Geohydrology)
- ➡ Water Quality and Resource Management

The department is leading an EU FP7 project: MUSTANG, aiming to develop new methods and understanding for geological storage of carbon dioxide



Hydrology - hydrogeology

The Hydrology/Hydrogeology specialization combines courses on: Environmental Assessment [▼]Groundwater and surface modeling I Field methods in Earth Science ^x Snow physics and hydrology Current research in physical geography and hydrology

Natural hazards and disasters





Physical Geography





The research programme of Physical Geography can be divided into two sub-groups:

- **¤** Exogene geochemistry
- ⊐ Glaciology

Researching key processes in *climate-driven glacier ch*anges and use these findings for quantitative *prediction* of future glacier changes and their *impact on global sea level* and regional water resources



Physical Geography

Physical geography offer dynamic courses in: **¤**Glaciology and glacial processes **¤**Geomorphology and Earth Surface processes **¤**Field methods in Earth Science **¤**Environmental change on geological timescales ^I Snow physics and hydrology × Natural hazards and disasters **¤** Environmental Assessment [▼]Water and Society **¤**Current research in physical geography and hydrology



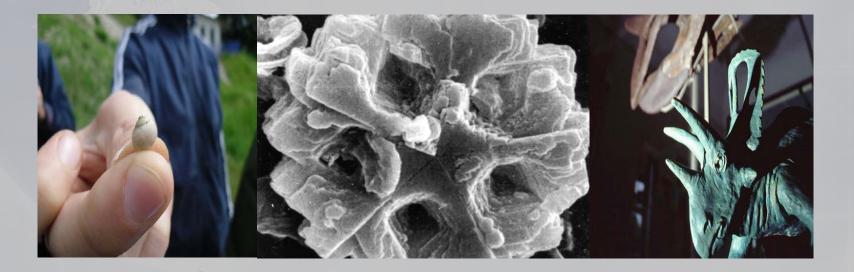


Paleobiology



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Research within the Paleobiology programme integrates the Earth and Life Sciences, encompassing the time span from the origin of life to the significant climatic changes of recent millennia.



Paleobiology

Paleobiology courses are:

- 1 semester
- Analytical methods in earth sciences
- 2 semester
- evolutionary organismal biology
- principles of paleobiology
- 3 semester
- ✗ the origin and early evolution of life
- \varkappa the origin and evolution of vertebrates

The courses contain several field-trips





European paleobiology



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Joint programme between Lille, France and Uppsala, Sweden

The first semester is based in Lille, with courses including:
 Sedimentology and sequence stratigraphy
 Micropalaeontology and geobiology
 Large-scale perturbations of the biosphere
 The second and third semesters in Uppsala
 The degree project in either Lille or Uppsala

Geophysics



The department has four research groups:

- Earthquake Seismology
- seismology
- **Electromagnetics studies** Ц
- **Orogen dynamics** Ц



You study planet Earth using:

- [▼] magnetometry
- ¤ GPS
- electromagnetics Ħ





Degree Project – Master Thesis



- The Masters education is completed with one or two degree projects, each corresponding to 30 higher education credits
- The work can be carried out as a research project at the department or as a project for an industrial company, an NGO or a government agency



Entry Requirements



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Proficiency in English

- TOEFL: mark 4.5 in the written test, 575 (paper-based test); mark 4.0 in essay writing and a total score of 213 (computer-based); mark 20 in the written test, score of 90 (Internet-based).
- **IELTS:** An overall mark of 6.5 and no section below 5.5.

¤ Bachelor Degree (180 ECTS)

Programme specific requirements:

- Geology 90 ECTS in Earth Science & 15 ECTS in chemistry
- Hydrology 90 ECTS in Earth Science & **15 ECTS in mathematics**
- ✗ Physical geography 90 ECTS in Earth Science
- ☑ Paleobiology 90 ECTS in Earth Science or biology

Admissions



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 ISth October The online application system will open.
 ISth January Last date for applying.
 2st February Last date for submitting documents to University Studies in Sweden.

¤Online application only: www.universityadmissions.se

Contact and Information



UPPSALA UNIVERSITET

Director of Masters Programme in Earth Sciences :
 Dr. Abigail Barker abigail.barker@geo.uu.se

Director of Masters Programme in Geophysics:Dr. Christoph Hieronymus christoph.hieronymus@geo.uu.se

Study Counsellor:Susanne Paul studievagledare@geo.uu.se

- ¤ www.uu.se/en/admissions/master/
- ¤ www.uu.se/en/admissions/scholarships/

Σας ευχαριστώ για την προσοχή σας!

The northern lights in Uppsala 18 March 2015

