

## CURRICULUM VITAE

LUDVIG LÖWEMARK

Department of Geosciences, National Taiwan University  
No 1. Sec. 4 Roosevelt Road, P.O. Box 13-318, 106 Taipei, Taiwan  
loewemark@gmail.com

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### ACADEMIC CAREER

- March, 2009**    **Docent in Marine Geoscience** (promotion to associate professor)  
Department of Geology and Geochemistry, Stockholm University, Sweden
- May, 2001**    **PhD in Earth Sciences** (*magna cum laude*)  
Kiel University, Germany. "**Biogenic traces as palaeoceanographic indicators in Late Quaternary sediments from the SW Iberian margin**".  
Supervisors: Prof. Dr. Priska Schäfer and Dr. Friedrich Werner
- October, 1996**    **MSc in Earth Sciences** (*with distinction*)  
Stockholm University, Sweden. "**Changes in groundwater chemistry due to a small scale deforestation at lake Yngern, Sweden**" Supervisor: Dr. Magnus Mörtz

### PROFESSIONAL EXPERIENCE

- 2013 - Present    Associate professor, Department of Geosciences, National Taiwan University, Taiwan
- 2012              Coordinator of Earth System Sciences Research School and Researcher at Alfred-Wegener-Institute for Polar and Marine Research, Germany (May to December)
- 2008 - 2012      Director of studies, Bert Bolin Centre for Climate Research, Stockholm University, Sweden
- 2007 - 2012      Research fellow (forskarassistent), Department of Geological Sciences, Stockholm University, Sweden
- 2006 - 2007      Adjunct assistant professor, Department of Geosciences, NTU, Taiwan
- 2004 - 2006      Postdoc, Department of Geosciences, NTU, Taiwan
- 2001 - 2004      Postdoc, Institute of Earth Sciences, Academia Sinica, Taiwan
- 1997 - 2001      Research Assistant (PhD student), Institute of Geosciences, Kiel University, Germany
- 1996 - 1997      Research Assistant, GEOMAR, Kiel, Germany

### RESEARCH VESSEL CRUISES

- 2012              LOMROG III expedition. 6 weeks research cruise with Icebreaker ODEN, Longyearbyen-North Pole-Longyearbyen: gravity coring, piston coring; preparation of sediment cores
- 2012              One-day exercise-cruise for the research school with AWI-ship Uthörn. Wurster Rinne, Wadden Sea, Germany
- 2009              LOMROG II expedition. 6 weeks research cruise with Icebreaker ODEN, Longyearbyen-North Pole- Longyearbyen: gravity coring, piston coring; preparation of sediment cores; sub-bottom profiler, multibeam

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- 2007 4 days seismic profiling (chirp, pinger, sidescan sonar) and piston coring, Askö, Baltic Sea
- 2007 LOMROG I expedition. 5 weeks research cruise with Icebreaker ODEN, Tromsø-Longyearbyen: gravity coring, piston coring; preparation of sediment cores; sub-bottom profiler, multibeam, sea ice sampling
- 2002 4 days research cruise with R/V "Ocean Researcher I", Okinawa Trough
- 1997 5 weeks research cruise with R/V "METEOR", Hamburg-Athens: gravity coring, piston coring, giant box coring, dredging; preparation of sediment cores; parasound, hydrosweep, gravimetric and magnetic surveys

### ACADEMIC AWARDS

- 2017 National Taiwan University Teaching Award for 2016.
- 2016 National Taiwan University Teaching Award for 2015.
- 2013 NSC Special Outstanding Talent Award (for 2013-2015), National Science Council, Taiwan
- 2006 Fee Waiver Award (invited speaker and session chair), Asia Oceania Geosciences Society (AOGS) 3rd Annual Meeting, 10-14 July, Singapore
- 2004 Travel Award, First International Congress on Ichnology, Trelew, Patagonia, Argentina.
- 1998 European Union and NORFA Travel Award, Summer School on Greenland Ice Cores and North Atlantic Climate: Kirkjubæjarklaustur, Iceland.
- 1996 - 1997 One-year Scholarship at Christian-Albrechts University of Kiel, Germany
- 1994 - 1995 3-Semester ERASMUS-scholarship, University of Marburg, Germany

### SUPERVISION EXPERIENCE

#### PhD students

**Sakonvon Chawchai** (Stockholm University). PhD completed on October 17<sup>th</sup> 2014. Co-supervised with Barbara Wohlfarth. "*Paleoenvironmental and paleoclimatic changes in northeast Thailand during the Holocene*"

**Akkaneewut Chabangbom** (Stockholm University). PhD completed on October 10<sup>th</sup> 2014. Co-supervised with Barbara Wohlfarth. "*Asian monsoon over mainland Southeast Asia in the past 25 000 years*".

**Jyh-Jaan Huang** (National Taiwan University). PhD completed in January 2017. Co-supervised with Prof. Kuo-Yen Wei.

**Akanksha Singh** (National Taiwan University). Ongoing PhD.

#### Master students

**Matteo Mellqvist** (Stockholm University). Graduated 2009. *New evidence for a mega-event*

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*in the Arctic Ocean: Itrax XRF-scanning of cores from the Ymer-80, Arctic Ocean-96, and LOMROG-07 expeditions.*

**Antonia Hofmann** (University of Bremen). Graduated **2012**. *Hemipelagic and contouritic sedimentation on the Galician continental slope, NW Spain* (Co-supervised with Til l Hanebuth)

**Hao-Cheng (Pierre) Wang** (National Taiwan University) Graduated **2013**. *Asian monsoon variability over the past 23,000 years inferred from Klang Cave, Thailand* (Co-supervised with Chuan-Chou River Shen)

**Jerker Eriksson** (Stockholm University). Graduated **2014**. *Weichselian Ice dammed lakes: formation and climatic significance – (WeIDFoCS): the sedimentary evidence*

**Weng-Si (JC) Chao** (National Taiwan University) Graduated **2017**. *Heavy Mineral Provenance of a Distinct Gray Layer from the Lomonosov Ridge off Greenland.*

**Pin-Yao (Bernie) Chiu** (National Taiwan University) Graduated **2017**. *Sedimentary records of environmental change from the Arctic Ocean.*

**Chung-Ping Yeh** (National Taiwan University) Graduated **2018**. *Miocene environmental change recorded in the Nankang Formation, NE Taiwan.*

### Supervised international guest students

Dora Carolina Leon Dominguez (Mexico), Spring 2014

Subarna Das (India), Winter 2014 - Spring 2015

Karlis Muizniecks (Lithuania), Spring 2016

Graham Wong (Canada), Spring 2016

Wachirasee Suwansukho (Thailand), Winter 2017

Patthapong Chaiseanwang (Thailand), Summer 2017

### Undergraduate students

**Joanna Uhlbäck (BSc)**. Graduated **2010**. *Methodological study of XRF scanning of Holocene lake sediments from Taiwan*

**Mikael Hovemyr (BSc)**. Graduated **2011**. *The Mineralogy of Arctic Ocean Mn-Cycles*

**Oscar Fransner (BSc)**. Graduated **2011**. *An environmental record from Lake Kuchi, southern Taiwan*

**Lina Hansson (BSc)**. Graduated **2013**. *Upper slope sedimentation environments in the Gaoping river-sea system of SW Taiwan*

### Supervised research trainees in geology and geochemistry

(These students spend 5-10 weeks at a department outside their home university under my supervision)

**Lina Hansson**. 2011. Institute of Oceanography, National Taiwan University. Sedimentology

**Oscar Fransner**. 2010. Department of Geosciences, National Taiwan University.

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### Micropaleontology

**Adam Engström.** 2010. Institute of Earth Sciences, Academia Sinia, Taiwan. Geochemistry.

**Fredrik Östling.** 2009. Institute of Earth Sciences, Academia Sinia, Taiwan. Paleomagnetic laboratory.

**Nathalie Ljunggren.** 2009. Core processing lab. Department of Geology and Geochemistry, Stockholm University. Itrax XRF-fluorescence scanning.

**Mikael Hovemyr.** 2008. Institute of Earth Sciences, Academia Sinia, Taiwan. Paleomagnetic laboratory.

**Åsa Löv.** 2008. Department of Geosciences, National Taiwan University. Clay mineralogy.

### Summer students at Academia Sinica

**Wei-Li Hong.** 2004. Institute of Earth Sciences, Academia Sinia, Taiwan. Micropaleontology and stable isotope geochemistry

**Yin Lin.** 2003. Institute of Earth Sciences, Academia Sinia, Taiwan. Sediment geochemistry and XRF-measurements