
PERSONAL INFORMATION

NAME: Erik Göte Abrahamsson
POSITION: Postdoc, University of British Columbia, Vancouver, Canada
CITIZENSHIP: Swedish

CONTACT INFORMATION

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EDUCATION

DOCTORAL: Department of Chemistry, Physical Chemistry, University of Gothenburg, Sweden.
Reactive and non-reactive quantum scattering dynamics and scientific computing.
Supervisors: Gunnar Nyman, University of Gothenburg, and Nikola Marković, Chalmers University of Technology, Gothenburg, Sweden.
January 2002 – March 2008.

Accepted to **National Graduate School of Scientific Computing** (NGSSC), May 2002.

Visiting researcher, Department of Chemistry, Theoretical Chemistry, University of British Columbia.
Supervisor: Roman Krems.
April 2006 – March 2007.

UNDERGRADUATE: **Master of Science in Chemical Engineering and Engineering Physics**, Chalmers University of Technology, Gothenburg, Sweden.
Main elective subjects: Quantum physics, physical chemistry.
August 1995 – April 2002.

RELATED STUDIES: **Griffith University**, Brisbane, Australia.
Main elective subjects: Biochemistry, spectroscopy, NMR.
February 1999 – December 1999.

SCHOLARSHIPS

Olle Engkvist Foundation Post-Doc Scholarship, 2007

The Sweden-America Foundation Post-Doc Scholarship, 2007

Faculty of Philosophy Travel Grant, 2003, 2005, 2006.

University of Gothenburg Centennial Fund Travel Grant,
2002.

**National Graduate School of Scientific Computing
Scholarship,** Swedish Research Council, 2002.

**The Swedish Association of Graduate Engineers'
Fellowship Grant,** 1999.

PUBLICATIONS

DOCTORAL THESIS: **Atom-Diatom Scattering - From Potential Energy Surfaces to Rate Constants.**

Thesis for the degree of Doctor of Philosophy.

Supervisors: Gunnar Nyman, University of Gothenburg, and Nikola Marković, Chalmers University of Technology.

Theses defended on April 1st, 2008.

Examiner: Sture Nordholm, University of Gothenburg.

Opponent: Uwe Manthe, Bielefeld University, Germany.
March 2008.

LICENTIATE THESIS: **Classical and Quantum Dynamics of the O + CN Reaction.**

Thesis to receive the Swedish graduate degree of Licentiate, about half way through a graduate program. Presented and examined at a public seminar.

Reviewer: Johan Bergenholtz, University of Gothenburg.
March 2006.

MASTER THESIS: ***In Silico* Synthesis of Weakly Coordination Anions.**

Supervisor: Patrik Johansson, Department of Physics, Material Physics, Chalmers University of Technology.

Examiner: Per Jacobsson, Chalmers University of Technology.
December 2001.

PAPERS:

E. Abrahamsson, S. Andersson, N. Marković, and G. Nyman. '*Dynamics of the O + CN reaction and N + CO scattering on two coupled surfaces*', Accepted for publication in J Phys Chem A (2009).

E. Abrahamsson and S. S. Plotkin. '*BioVEC: A program for Biomolecule Visualization with Ellipsoidal Coarse-graining*', J Mol Graph Model, **28**, 140 (2009).

E. Abrahamsson, S. Andersson, N. Marković, and G. Nyman. '*A new reaction path for the CNO system*'. PCCP, **10**, 4400 (2008).

E. Abrahamsson, T. V. Tscherbul, and R. V. Krems. *Inelastic collisions of cold polar molecules in nonparallel electric and magnetic fields*, J Chem Phys, **127**, 044302 (2007).

E. Abrahamsson, G. C. Groenenboom, and R. V. Krems. *Spin orbitrelaxation of Cl(2P1/2) and F(2P1/2) in a gas of H2*, J Chem Phys, **126**, 184303 (2007).

E. Abrahamsson, R. V. Krems, and A. Dalgarno. *Fine-structure excitation of O i and C i by impact with atomic hydrogen*, ApJ, **654**, 1171 (2007).

E. Abrahamsson, S. Andersson, N. Marković, and G. Nyman. *Classical and quantum dynamics of the O + CN reaction*, Chem Phys, **234**, 507 (2006).

P. Johansson and **E. Abrahamsson**. *A novel field of ab initio studies: Complexation of simple anions within neutral cryptands*, J Mol Struct THEOCHEM, **717**, 215 (2005).

STUDENTS SUPERVISED

Philip Edgcumbe, Engineering Physics coop work-study, *Computational models of DNA*. September 2009 – January 2010.

TEACHING EXPERIENCE

Teaching assistant, undergraduate laboratory course in spectroscopy, University of Gothenburg, 2007.

Teaching assistant, undergraduate course in physical chemistry, University of Gothenburg, 2002 – 2005.

Teaching assistant, introductory laboratory courses in chemistry, University of Gothenburg, 2002 – 2005.

EXTRACURRICULAR WORK

Chemistry Graduate Student Council, University of Gothenburg, 2002 – 2006.

KfKb-6, Chalmers University of Technology, 1996, 2002. Student society, organizing pubs and parties.

SNKfKb, Chalmers University of Technology, 1996 – 1998, 2000 – 2002. Student Council's Academic Policy Committee.

UUo, Chalmers University of Technology, 1998. Representative in the Student Council's Committee of Student's Affairs.

KfKb-Styret, Chalmers University of Technology, 1997.
Secretary on the Board for the Undergraduate Student Society.

MILITARY SERVICE

Skyddstekniker, Totalförsvarets Skyddsskola, Umeå. NBC & Fire specialist. Rank of **Fänrik** (Second Lieutenant). Training include: Biological effects of radiation and hazardous chemicals and drugs, immunology, group dynamics and leadership. July 1994 – June 1995.

LANGUAGES

Swedish – Native.
English – Fluent.

REFERENCES

Available on request.