

# CV – Dag Sverre Seljebotn

## PERSONAL

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Name:	Dag Sverre Seljebotn	Date of Birth:	December 23, 1983
Address:	Kongleveien 42 0860 OSLO, Norway	Nationality:	Norwegian
E-mail:	dagss@student.matnat.uio.no	Gender:	Male
Homepage:	<a href="http://heim.ifi.uio.no/dagss">http://heim.ifi.uio.no/dagss</a>	Languages:	Norwegian: Native English: Very good

## EDUCATION

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Feb 2011 – Ph. D. studies, Institute of Theoretical Astrophysics, University of Oslo

2008–Oct 2010 M. Sc. in Computational Science,  
Department of Mathematics, University of Oslo  
Thesis: *Hemispherical Power Asymmetry in the Cosmic Microwave Background by Gibbs Sampling*  
Supervisor: Ass. Prof. Hans Kristian Eriksen, Institute of Theoretical Astrophysics

2005–2008 B.Sc. in Mathematics, Computer Science and Technology,  
Department of Mathematics, University of Oslo

2002–2003 Introductory studies in global politics, economics and foreign aid  
Oslo University College

## EMPLOYMENT AND OTHER ACTIVITIES

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Nov 2010 – Feb 2011 Consultancy work for Enthought Inc.  
Assist in porting SciPy to the .NET platform

Autumn 2007, Autumn 2008 Teaching Assistant in the Master-level course “Algorithms: Design and efficiency” (INF4130), University of Oslo

Summer 2008 Funded by the Google Summer of Code program to work on the Cython compiler

2005 – 2008 IT System Administrator (part-time), Fredtun folkehøyskole, Stavern

2002 – 2007 Software developer, Nynodata AS, Bø i Telemark  
Full time spring 2005, various summer internships and part time work

## PUBLICATIONS

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*Wavemoth – Fast spherical harmonic transforms by butterfly matrix compression* D. S. Seljebotn, 2011, Astrophysical Journal Supplemental Series (accepted), arXiv:1110:4874

*Master thesis: Hemispherical Power Asymmetry in the Cosmic Microwave Background by Gibbs Sampling* D. S. Seljebotn, 2010

*Cython: The best of both worlds* S. Behnel, R. W. Bradshaw, C. Citro, L. Dalcin, D. S. Seljebotn & K. Smith, Computing in Science and Engineering, vol. 13, no. 2, 2011

*Fast numerical computations with Cython* D. S. Seljebotn, Proceedings of the 8th Annual Python in Science Conference, 2009

*Cython Tutorial* S. Behnel, R. W. Bradshaw & D. S. Seljebotn, Proceedings of the 8th Annual Python in Science Conference, 2009

#### INVITED TALKS

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*Cython Tutorial* 3rd European meeting on Python in science, Ecole Normale Supérieure, Paris, France, 2010

*Cython Tutorial* 8th Annual Python in Science Conference, California Institute of Technology, Pasadena, USA, 2009

*Cython Tutorial* The 8th Annual Meeting on High Performance Computing and Infrastructure in Norway, NTNU, Trondheim, Norway, 2009

#### WORKSHOPS AND RESEARCH VISITS

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Cython Days 1, Munich, Germany, 2011

Visit to Jet Propulsion Laboratory, California Institute of Technology, Pasadena, USA, 2009

Sage Mathematics Software Developer Days, University of Washington, Seattle, USA, 2008

#### REFERENCES

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My M. Sc. supervisor:

**Ass. Prof. Hans Kristian Eriksen**  
Institute of Theoretical Astrophysics,  
University of Oslo, Norway

Email: h.k.k.eriksen@astro.uio.no

Phone: +47 22 85 84 54

Co-developer on the Cython project:

**Dr. Lisandro Dalcin, Assistant Researcher**  
National Scientific and Technical Research Council,  
National University of the Litoral, Santa Fe, Argentina

Email: dalcinl@gmail.com

Phone: +54-342-4511594 (ext 1011)

Lecturer of the Master-level course “Algorithms: Design and efficiency” (where I have twice been a TA):

**Ass. Prof. Dino Karabeg**  
Institute of Informatics,  
University of Oslo, Norway

Email: dino.karabeg@ifi.uio.no

Phone: +47 22 85 27 02