

CV/General Information

Tomas Sjödin

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Name: Tomas Sjödin

Date of birth: 26-Dec-1976

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1.1 Degrees

MS Vehicle Engineering, KTH (2000).

PhD Mathematics, KTH (2005).

Thesis: *“Topics in Potential Theory: Quadrature Domains, Balayage and Harmonic Measure”*.

1.2 Academic positions

Graduate student, KTH (2000.08.01-2005.06.31).

Senior Lecturer, KTH (2005.07.01-2006.06.31) (half time parental leave).

Postdoctoral Fellow, School of Mathematical Sciences, UCD Dublin (2006.09.01-2007.06.31).

Researcher at the Department of Mathematics, KTH (2007.07.01-2007.12.31).

Current Position:

Associate Professor, Department of Mathematics, Linköping University.

2 Publications

- [1] T. Sjödin, 'Quadrature Identities and Deformation of Quadrature Domains', *Quadrature Domains and their Applications*, Operator Theory, Advances and Applications, Vol. 156, 239-255, Birkhäuser (2005).
- [2] T. Sjödin, 'Mother bodies of algebraic domains in the complex plane', *Complex Variables and Elliptic Equations*, Vol. 51, No. 4, 357-369, (2006) ©Taylor & Francis.
- [3] T. Sjödin, 'On the Structure of Partial Balayage' *Nonlinear Analysis: theory, methods and applications*, Vol 67:1, 94-102 (2007).
- [4] S. J. Gardiner and T. Sjödin, 'Quadrature Domains for Harmonic Functions' *Bulletin of the LMS*, Vol. 39:4, 586-590 (2007).
- [5] T. Sjödin, 'Approximation in the Cone of Positive Harmonic Functions', *Potential Analysis* Vol. 27, 271-280 (2007).
- [6] S. J. Gardiner and T. Sjödin, 'Convexity and the Exterior Inverse Problem of Potential Theory', (*Proc. AMS. To appear.*).
- [7] T. Sjödin, 'Harmonic Measures and the Compactification Lattice', (Preprint).
- [8] S. J. Gardiner and T. Sjödin, 'Potential Theory in Denjoy Domains', (To Appear).
- [9] S. J. Gardiner and T. Sjödin, 'Partial Balayage and the Exterior Inverse Problem of Potential Theory', (To Appear).