

# Bjarke Hammersholt Rouné

*Curriculum Vitae 2009*

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## Education

- 2006-2010 **PhD student in Computer Science**, *University of Aarhus*, Denmark.
- 2005-2008 **MS in Mathematics**, *University of Aarhus*, Denmark.
- 2002-2005 **BA in Computer Science and Mathematics**, *University of Aarhus*, Denmark.
- 1999-2002 **Gymnasium, mathematical curriculum**, *Haderslev Katedralskole*, Denmark.

## Employment

- 2006-Present **Teaching Assistant**, *University of Aarhus*, Denmark.  
Lead discussion sections for courses and grade assignments.
- 2003-2006 **Programmer**, *Injection*, Denmark.  
Implement custom functionality in C# for a Web Content Management System.

## Languages

- Danish **Fluent**, *First language*.
- English **Fluent**, *Speaking, reading and writing*.

## Honors

- 2008 **250,000 DKK EliteResearch PhD travel grant**, *Ministry of Science*, Denmark.
- 2002 **Honorable mention**, *International Mathematics Olympiad*, Scotland.
- 2002 **Silver medal**, *International Olympiad in Informatics*, Korea.
- 2001 **Silver medal**, *International Olympiad in Informatics*, Finland.

## Longer research stays

- 2008 **Four months at Cowles Foundation**, *Yale University*, USA.
- 2006-2007 **Ten months at Institute for Mathematics and its Applications**, *University of Minnesota*, USA.

## Selected talks

- 2008 **Special Session of Annual AMS meeting**, *San Diego*, USA.  
Computing Frobenius Numbers Using Test Sets.
- 2008 **The Macaulay 2 Conference**, *Cornell University*, USA.  
The Slice Algorithm for Irreducible Decomposition of Monomial Ideals.

2006 **Algebraic geometry and applications seminar**, *University of Minnesota, USA*.  
On Faugere's F4 Algorithm - Speeding Up Groebner Basis Computation Using Linear Algebra.

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## Publications

Bjarke Hammersholt Røne. Solving thousand digit Frobenius problems using Groebner bases. *Journal of Symbolic Computation*, 43(1):1–7, January 2008. arXiv:math/0702040.

Bjarke Hammersholt Røne. The slice algorithm for irreducible decomposition of monomial ideals. *Journal of Symbolic Computation*, To appear. arXiv:math/0806.3680.