

# Kristoffer Josefsson

*Diplom Mathematiker*

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## Research interests

- Polyhedral surfaces and discretizations of classical phenomena of differential geometry, in particular mean curvature functions on Delaunay triangulated polyhedra.
- Discrete developing maps, nets of polyhedra and unfoldings.
- Curvature of polygons and polyhedral surfaces, representations of discrete meshes from curvature and the Minkowski problem.
- Isometric deformations of quad-meshes and relations to integrable systems.

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## Research experience

May 2006 – February 2007 **Marie Curie Fellowship, ENIGMA**, TU Berlin.  
Investigation of unfoldings of polyhedra and computer implementation in Java.

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## Master thesis

Title *The four vertex theorem for polygons*  
Supervisor Jan Stevens

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## Participation in conferences

2006 **The Painlevé Equations and Monodromy Problems**, Isaac Newton Institute for Mathematical Sciences, Cambridge.

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## Talks held

2007 The discrete four vertex theorem  
2006 Stratified Morse theory  
2006 Discrete Hodge decomposition, Tutte theorem

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## Education

2001–2007 **Master of Science in Mathematics**, Göteborgs Universitet, Sweden.  
1998–2000 **Gymnasium (High School)**, Sweden.

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## Personal information

Birt date 16 February 1982  
Nationality Swedish

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## Languages

Swedish Native English Very good  
German Good

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## Relevant skills

Programming JAVA, C/C++, Haskell, Python, OpenGL Programs Matlab, Mathematica, L<sup>A</sup>T<sub>E</sub>X, Beamer, Eclipse, polymake, scipy, Portal, jReality  
Other Drivers license