

# Lakin Wecker

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## Current position

*PhD Student*, University of Calgary  
*Owner / Director / Software Developer*, [Structured Abstraction](#)

## Areas of specialization

Digital Earth, Numerical Optimization, Computer Graphics

## Industry Experience

2000-2002	Lead Programmer, RSI, Washington DC
2004	Lead Programmer, iStockPhoto, Calgary, AB
2004-2006	Lead Database Programmer, Taxback, Calgary, AB
2006-2007	Senior Software Developer, Evolvs Media Inc, Calgary, AB
2007-2008	Senior Software Developer, Etsy Inc, Brooklyn, NY
2008-Present	Owner, Director and Software Developer, Structured Abstraction, Calgary AB

## Education

2004	B.Sc in Computer Science, University of Calgary
2007	M.Sc in Computer Science, University of Calgary
2017	PH.D STUDENT in Computer Science, University of Calgary

## Grants, honors & awards

2007	Twice recipient of a Departmental Research Award
2017	Queen Elizabeth Scholarship
2018	NSERC Scholarship

## Publications & talks

### THESIS

- 2007 “Synthesizing Techniques based on Multiresolution” Lakin Wecker *M.Sc Thesis*, University of Calgary

### JOURNAL ARTICLES

- 2007 “Contextual Void Patching for Digital Elevation Models” Lakin Wecker, Faramarz Samavati and Marina Gavrilova *The Visual Computer*, Vol. 23, No. 9, Springer-Verlag, pp. 881-890 (2007) (Presented at CGI 2007 and selected for publication in *The Visual Computer* journal)
- 2010 “A Multiresolution Approach to Iris Synthesis” Lakin Wecker, Faramarz Samavati and Marina Gavrilova *Computers & Graphics*, Vol. 34, No. 4, Elsevier Ltd., pp. 468-478 (2010)

### CONFERENCES

- 2005 “Iris Synthesis: A Reverse Subdivision Application” Lakin Wecker, Faramarz Samavati and Marina Gavrilova (2005) *International Conference on Computer Graphics and Interactive Techniques in Australasia and South East Asia (GRAPHITE)* in association with ACM SIGGRAPH, Short Paper, ACM, Dunedin, New Zealand, pp. 121-125 (Nov-Dec 2005)