

# M. Adil Yalçın

🏠 [www.adilyalcin.me](http://www.adilyalcin.me)  
✉ [adil@keshif.me](mailto:adil@keshif.me)



## Founder & CEO, Keshif

Senior Visual Data Analyst, Consultant, Developer

Ph.D., Computer Science, University of Maryland, College Park

I am the senior designer and developer of **Keshif** ([www.keshif.me](http://www.keshif.me)), the next generation out-of-the-box rapid visual data exploration platform. I have over seven years of professional research experience with over 10 publications, including book chapters, and papers in renowned journals and conferences. After 4 years of development and research on Keshif at **Human-Computer Interaction Lab**, I currently serve as the CEO / CTO / Founder of Keshif, LLC.

## 🎓 Education

	<b>Ph.D. - Doctor of Philosophy</b> Computer Science, University of Maryland, College Park, MD, USA Thesis: <b>A Systematic and Minimalist Approach to Lower Barriers in Visual Data Exploration</b> Advisors: Niklas Elmqvist, Ben Bederson	<b>Dec. 2016</b>
	<b>M.Sc. - Master of Science</b> Computer Engineering, Bilkent University, Ankara, Turkey Thesis: Real-Time Simulation and Visualization of Deformations on Heightfields Advisors: Bülent Özgüç, Tolga Çapın	<b>June 2010</b>
	<b>B.Sc. - Bachelor of Science</b> Computer Engineering, Middle East Technical University, Ankara, Turkey Senior Project: Operational Simulation System - OPSIMUS	<b>June 2008</b>

## 🔧 Skills

🎯 Goal	<b>Effective, minimal solutions to complex challenges</b>
♥ User Interfaces / Visualization / Front End / Design	JavaScript, HTML5, CSS3, d3, Photoshop, Tableau
🔧 Development	SublimeText, less, Version control (git/svn)
📄 Data Processing / Back End	Node.js, SQL, Python, Java, Matlab
👍 Computer Graphics, Simulation	C++, C, OpenGL / GLSL, OpenCL / Cuda, Lua

## 📄 Publications

### **Keshif: Rapid and Expressive Tabular Data Exploration for Novices**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

**TVCG** - Transactions on Visualization and Computer Graphics (In pressing)

### **Raising the Bars: Evaluating Treemaps vs. Wrapped Bars for Dense Visualization of Sorted Numeric Data**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

**GI 2017** - Graphics Interface

### **AggreSet: Rich and Scalable Set Exploration using Visualizations of Element Aggregations**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

**INFOVIS '15** - IEEE Transactions on Visualization and Computer Graphics (Proc. of the VAST / InfoVis / SciVis 2015)

## **Piled Bars: Dense Visualization of Numeric Data**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

GI 2017 - Graphics Interface

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## **Cognitive Stages in Visual Data Exploration**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

BELIV '16 - Proceedings of Beyond Time and Errors: Novel Evaluation Methods for Visualization at IEEE VIS 2016

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## **Keshif: Out-of-the-Box Visual and Interactive Data Exploration Environment**

M. Adil Yalçın & Niklas Elmqvist & Ben Bederson

VIP '16 - Visualization In Practice Workshop at IEEEVIS

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## **Information Visualization**

M. Adil Yalçın & Catherine Plaisant

Big Data and Social Sciences - CRC Publishing

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## **PixelPie: Maximal Poisson-disk Sampling with Rasterization**

Cheuk Yiu Ip & M. Adil Yalçın & David Luebke & Amitabh Varshney

HPG '13 - Proceedings of the 5th High-Performance Graphics Conference

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## **GPU Algorithms for Diamond-based Multiresolution Terrain Processing**

M. Adil Yalçın & Kenneth Weiss & Leila De Floriani

EGPGV '11 - Proceedings of the 11th Eurographics conference on Parallel Graphics and Visualization

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## **Incorporating Learning Analytics into Basic Course Administration: How to Embrace the Opportunity to Identify Inconsistencies and Inform Responses**

Lindsey B. Anderson & Elizabeth E. Gardner & Andrew D. Wolvin & Rowena Kirby-Straker & Adil Yalçın & Ben Bederson

NCA 2015 - 101th Annual meeting of the National Communication Association

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## **Real-Time Simulation and Visualization of Deformations on Heightfields**

M. Adil Yalçın

M.Sc. Thesis - Bilkent University

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## **A Generic Multi-View Rendering Engine Architecture**

M. Adil Yalçın & Tolga Çapın

Game Engine Gems Volume 2 - A.K. Peters

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## **Route Visualization in Indoor Panoramic Imagery with Open Area Maps**

Mateis Stroila & M. Adil Yalçın & Joe Mays & Narayanan Alwar

ICMEW '12 - IEEE International Conference on Multimedia and Expo Workshops

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## **Editing Heightfield using History Management and 3D Widgets**

M. Adil Yalçın & Tolga Çapın

ISCS '09 - 24th International Symposium on Computer and Information Sciences

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## **Work Experience**

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<b>Keshif, LLC</b> - Arlington, VA CEO, CTO, Founder ✈ Making Data Explorable	<b>2017-now</b>
<b>START (National Consortium for the Study of Terrorism and Responses to Terrorism)</b> - College Park, MD Researcher & Developer ✈ Keshif, Profiles of Individual Radicalization in the U.S.	<b>2016 - 2017</b>
<b>SESYNC (National Socio-Environmental Synthesis Center)</b> - Annapolis, MD Researcher & Developer ✈ Keshif, Data to Motivate Synthesis Project	<b>2015 - 2016</b>
<b>Teaching and Learning Transformation Center, UMD</b> - College Park, MD Researcher & Developer ✈ Keshif, Education Data Analysis	<b>2014 - 2015</b>
<b>AT&amp;T Labs Research</b> - Florham Park, New Jersey R&D Intern ✈ Free viewpoint synthesis using depth and color sensors	<b>2012 Summer</b>
<b>NAVTEQ</b> - Chicago R&D Intern ✈ 3D Indoor navigation application development	<b>2011 Summer</b>

<b>University of Maryland</b> - College Park, MD Teaching Assistant ✈ CMSC250 & CMSC122	<b>2010 - 2013</b>
<b>3DPHONE</b> - Ankara, Turkey Research Assistant ✈ Graphics Engine / Effects Development	<b>2009 January - 2010 July</b>
<b>Bilkent University</b> - Ankara, Turkey Teaching Assistant ✈ CS101 & CS123	<b>2008 - 2010</b>
<b>TUBITAK UZAY</b> - Ankara, Turkey Development Intern ✈ Turkish NLP (Word structure analysis) software development	<b>2007 Summer</b>
<b>Simsoft</b> - Ankara, Turkey Developer ✈ Aircraft Behaviour Modeling	<b>2008 Spring</b>
<b>HAVELSAN</b> - Ankara, Turkey Development Intern ✈ Stock Tracing Web Service System	<b>2006 Summer</b>