

M. Adil Yalçın

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Visual Data Analyst, Consultant, Developer

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

Lowering the barriers in rich visual & interactive data analysis for a broad audience

is the driving motivation of my work. I am the designer and developer of **Keshif** (www.keshif.me), the next generation out-of-the-box rapid visual data exploration environment.

I offer professional data analysis services, consulting and development through **Keshif, LLC**.
My solutions are based on innovative human-centered design, research, and engineering.
You can reach me at ✉ adil@keshif.me or [in](https://www.linkedin.com/in/adilyalcin) (linkedin.com/in/adilyalcin). (I am a green card holder.)

Education

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

Skills

🎯 Goal	Effective, minimal solutions to complex challenges
♥ 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

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)

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

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 IEEE VIS

Information Visualization

M. Adil Yalçın & Catherine Plaisant

Big Data and Social Sciences - CRC Publishing

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

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

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 Yalcin & Ben Bederson

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

Real-Time Simulation and Visualization of Deformations on Heightfields

M. Adil Yalçın

M.Sc. Thesis - Bilkent University

A Generic Multi-View Rendering Engine Architecture

M. Adil Yalçın & Tolga Çapın

Game Engine Gems Volume 2 - A.K. Peters

Route Visualization in Indoor Panoramic Imagery with Open Area Maps

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

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

Editing Heightfield using History Management and 3D Widgets

M. Adil Yalçın & Tolga Çapın

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

Work Experience

START (National Consortium for the Study of Terrorism and Responses to Terrorism) - College Park, MD	2016 - now
Research & Development ✂ Global Terrorism Database	
SESYNC (National Socio-Environmental Synthesis Center) - Annapolis, MD	2015 - 2016
Research & Development ✂ Data to Motivate Synthesis	
Teaching and Learning Transformation Center, UMD - College Park, MD	2014 - 2015
Research & Development ✂ Education Data Analysis	
AT&T Labs Research - Florham Park, New Jersey	2012 Summer
R&D Internship ✂ Free viewpoint synthesis using depth and color sensors	