M. Adil Yalçın

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Founder & CEO, Keshif
Senior Visual Data Analyst, Consultant, Developer

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

As the founder and CEO of **Keshif** (www.keshif.me), I work at the intersection of analytics, design, engineering, and business development. My goal is to provide innovative tools and consulting services to help organizations and individuals reach their data-driven insight and action goals.

I completed my Ph.D. in Computer Science at the University of Maryland as a member of the **Human-Computer Interaction Lab**. In my research, I created the basis of Keshif as the next-generation data exploration platform. My passion is providing refined, effective, principled solutions that lower barriers of complex tools and complex processes, i.e. solutions that are "as simple as possible, but not simpler". My academic work in data visualization and analysis has been published and cited in various books, proceedings, and academic journals.

🎓 Education

Ph.D. - Doctor of Philosophy   **December 2016**
Computer Science, University of Maryland, College Park, MD, USA
Thesis: **A Systematic and Minimalist Approach to Lower Barriers in Visual Data Exploration**
Advisors: Niklas Elmqvist, Ben Bederson

M.Sc. - Master of Science   **June 2010**
Computer Engineering, Bilkent University, Ankara, Turkey
Thesis: Real-Time Simulation and Visualization of Deformations on Heightfields
Advisors: Bülent Özgüç, Tolga Çapın

B.Sc. - Bachelor of Science   **June 2008**
Computer Engineering, Middle East Technical University, Ankara, Turkey
Senior Project: Operational Simulation System - OPSIMUS

💼 Selected Consulting Experiences

US Embassy Pristina & FLOSSK - Kosovo   **2018 Spring**
⚓ Building Capacities for Data Driven Advocacy in Kosovo

IREX - Washington, DC   **2018**
⚓ Interactive Visualizations for Media Sustainibility Index

United Nations Development Program (UNDP) - Remote work, Bangladesh   **2016 Fall**
⚓ The Bangladesh Peace Observatory Exploratory Dashboard

Kosovo Democracy Plus - Remote work, Kosovo   **2017 Summer**
⚓ Kosovo Election Results Exploratory Dashboard

Mobidox - Washington, DC   **2017 Winter**
⚓ Clinical Trial Data Analysis

Nestle Institute of Health Scences - Remote work, Switzerland   **2017 Winter**
⚓ Support and development for rapid data analysis of internal data

📄 Publications

Keshif: Rapid and Expressive Tabular Data Exploration for Novices
M. Adil Yalçın & Niklas Elmqvist & Benjamin B. Bederson

TVCG - Transactions on Visualization and Computer Graphics (2017)

Raising the Bars: Evaluating Treemaps vs. Wrapped Bars for Dense Visualization of Sorted Numeric Data
M. Adil Yalçın & Niklas Elmqvist & Benjamin B. Bederson

GI - Graphics Interface (2017)

AggreSet: Rich and Scalable Set Exploration using Visualizations of Element Aggregations
M. Adil Yalçın & Niklas Elmqvist & Benjamin B. Bederson

INFOVIS - 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 & Benjamin B. Bederson

GI (Poster Session) - Graphics Interface (2017)

Cognitive Stages in Visual Data Exploration
M. Adil Yalçın & Niklas Elmqvist & Benjamin B. Bederson

BELIV - 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 & Benjamin B. Bederson

VIP - Visualization In Practice Workshop at IEEEVIS (2016)

Information Visualization
M. Adil Yalçın & Catherine Plaisant

Big Data and Social Sciences - CRC Publishing (2016)

PixelPie: Maximal Poisson-disk Sampling with Rasterization
Cheuk Yiu Ip & M. Adil Yalçın & David Luebke & Amitabh Varshney

HPG - Proceedings of the 5th High-Performance Graphics Conference (2013)

GPU Algorithms for Diamond-based Multiresolution Terrain Processing
M. Adil Yalçın & Kenneth Weiss & Leila De Floriani

EGPGV - Proceedings of the 11th Eurographics conference on Parallel Graphics and Visualization (2011)

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 - 101th Annual meeting of the National Communication Association (2015)

Real-Time Simulation and Visualization of Deformations on Heightfields
M. Adil Yalçın

M.Sc. Thesis - Bilkent University (2010)

A Generic Multi-View Rendering Engine Architecture
M. Adil Yalçın & Tolga Çapın

Game Engine Gems Volume 2 - A.K. Peters (2011)

Route Visualization in Indoor Panoramic Imagery with Open Area Maps
Mateis Stroila & M. Adil Yalcin & Joe Mays & Narayanan Alwar

ICMEW - IEEE International Conference on Multimedia and Expo Workshops (2012)

Editing Heightfield using History Management and 3D Widgets
M. Adil Yalçın & Tolga Çapın

ISCIS - 24th International Symposium on Computer and Information Sciences (2009)

💼 Employment

Keshif, LLC - Alexandria, VA — **2017 - now**
CEO, CTO, Founder ✏ Making Data Explorable

START (National Consortium for the Study of Terrorism and Responses to Terrorism) - **2016 - 2017**
College Park, MD
Researcher & Developer ✏ Keshif, Profiles of Individual Radicalization in the U.S.

SESYNC (National Socio-Environmental Synthesis Center) - Annapolis, MD — **2015 - 2016**
Researcher & Developer ✏ Keshif, Data to Motivate Synthesis Project

Teaching and Learning Transformation Center, UMD - College Park, MD — **2014 - 2015**
Researcher & Developer ✏ Keshif, Education Data Analysis

AT&T Labs Research - Florham Park, New Jersey — **2012 Summer**
R&D Intern ✏ Free viewpoint synthesis using depth and color sensors

NAVTEQ - Chicago — **2011 Summer**
R&D Intern ✏ 3D Indoor navigation application development

University of Maryland - College Park, MD — **2010 - 2013**
Teaching Assistant ✏ CMSC250 & CMSC122

3DPHONE - Ankara, Turkey — **2009 Jan. - 2010 July**
Research Assistant ✏ Graphics Engine / Effects Development

Bilkent University - Ankara, Turkey — **2008 - 2010**
Teaching Assistant ✏ CS101 & CS123

TUBITAK UZAY - Ankara, Turkey — **2007 Summer**
Development Intern ✏ Turkish NLP (Word structure analysis) software development

Simsoft - Ankara, Turkey — **2008 Spring**
Developer ✏ Aircraft Behaviour Modeling

HAVELSAN - Ankara, Turkey — **2006 Summer**
Development Intern ✏ Stock Tracing Web Service System