Dr Cagatay Turkay
Senior Lecturer in Applied Data Science
Department of Computer Science, City, University of London
Tel: +44 20 7040 8415
Email: Cagatay.Turkay.1@city.ac.uk
http://www.staff.city.ac.uk/cagatay.turkay.1/

ACADEMIC WORK EXPERIENCE

Jun. 2017 – present: Senior Lecturer (Assoc. Prof.) in Dep. of Computer Science at City, University of London, UK

Sept. 2017 – present: Director for PG Studies at Dep. of CS at City, University of London, UK

Dec. 2013 – May.2017: Lecturer in Dep. of Computer Science at City, University of London, UK

Mar. 2013 - May 2013: Visiting research fellow at Harvard University, Cambridge, MA, USA

Jan. 2010 - Dec. 2013: Researcher, lecturer, & Teaching Assistant at University of Bergen, Bergen, Norway

Sept. June 2007 - June 2009: Research Assistant at Sabanci University, Istanbul, Turkey

FORMAL QUALIFICATIONS

Jan. 2010 - Nov. 2013: PhD. in Visualization, Department of Informatics, University of Bergen, Norway

Sept. 2007 - June 2009: M.Sc. in Computer Science & Eng., Sabanci University, Istanbul, Turkey

Sept. 2001 - June 2006: B.S. in Computer Engineering. Middle East Technical Univ., Ankara, Turkey

RESEARCH GRANTS & PROJECTS

Dec. 2017 – March. 2019: NIViS: Natural Language Interaction for Visual Data Analysis, EPSRC FG, £100k, (Turkay, PI)

April. 2018 – March. 2019: Agent based modelling and visualisation of the causes and consequences of knockon delays, RSSB, £80k, (Turkay, Co-I)

Sept. 2016 – Aug. 2019: DiSIEM: Diversity-enhancements for Security Information and Event Management, EU H2020, € 4 million total (€ 910k for CITY) (Turkay, Co-I)

Jan. 2016 – Dec. 2018: Interactive Visualization of Large Email Data, Industrial Funding, £86k, (Turkay, PI)

May 2014 – Feb. 2018: VALCRI: Visual Analytics for Sense-Making in Criminal Intelligence Analysis, EU FP7 (€500k for City, €13 million in total) (Turkay, Co-I)

May 2014 – November 2015: FareViz, Technology Strategy Board (£120k for City, £472k total) (Turkay, Co-I)

ACADEMIC SERVICES

- Guest Editor for IEEE Computers Graphics and Applications, 2017-18
- Editorial Board Member, Machine Learning and Knowledge Extraction
- Workshop Organiser for CD-MAKE 2017 VIS Workshop and BioVis Challenges Workshop at IEEE VIS 2017
- Paper Co-Chair for Eurographics UK Chapter CGVC 2015, 2016
- Organizing Committee Member for BioVis 2016 and 2017 as Data Contest Chair and as Fund-Raising Chair in 2015
- Programme Committee Member for IEEE VAST 2018, IEEE InfoVis 2017 & 2018, EuroVis 2016, 2017, 2018, EuroVA 2016, 2017, 2018, MIUA2015, 2016, HCI-KDD, VINCI 2016, 2017, SCCG 2017
- Reviewer: IEEE TVCG, IEEE CG&A, Elsevier Computer Graphics Forum

PhD STUDENTS & POSTDOCS SUPERVISED

- Phong Nguyen, Post-doctoral Research Associate on DiSIEM project, 2016 – 2019
- Rafael Henkin, Post-doctoral Research Associate on nIVis project, 2017-2019

- Mithileysh Sathiyanarayanan, 2nd year PhD student, 2016-2020
- Odunayo Fadahunsi, 3rd year PhD Student (PT), 2015 – 2022
- Kevin Allain, 1st year PhD Student (FT), 2017 - 2020

AWARDS & MENTIONS

- 2016 - IEEE Infovis 2016, Best Paper Honorable Mention
- 2015 - Visiting Academic Travel Grant, TUBITAK, Turkey

SELECTED INVITED TALKS

10.2017 Invited talk at the Open Data Science Conference 2017, London
01.2017 Invited Department Seminar Talk at Middlesex University
03.2016 Invited Departmental Seminar talk at The Johannes Kepler University Linz
07.2015 Invited Departmental Seminar at University of Leeds at Computer Science Department
03.2015 Invited talk and participation at Dagstuhl Seminar-- Bridging Information Visualisation with Machine Learning
08.2014 Keynote address at EurasiaGraphics 2014 - "Interactive Visual Data Analysis in the Times of Big Data"
07.2014 BioVis 2014 – Highlights of the year in Biological Data Visualisation

SELECTED RECENT PUBLICATIONS

- Turkay, C., Slingsby, A., Lahtinen, K., Butt, S. and Dykes, J. (2017). Supporting Theoretically-grounded Model Building in the Social Sciences through Interactive Visualisation. Neurocomputing
- Endert, A., Ribarsky, W., Turkay, C., Wong, B.L.W., Nabney, I.T., Diaz-Blanco, I. and Rossi, F. (2017). The State of the Art in Integrating Machine Learning into Visual Analytics. Computer Graphics Forum
- Turkay, C., Kaya, E., Balcisoy, S. & Hauser, H. (2017). Designing Progressive and Interactive Analytics Processes for High-Dimensional Data Analysis. IEEE Transactions on Visualization and Computer Graphics
- Beecham, R., Dykes, J., Meulemans, W., Slingsby, A., Turkay, C. & Wood, J. (2017). Map LineUps: effects of spatial structure on graphical inference. IEEE Transactions on Visualization and Computer Graphics
- Meulemans, W., Dykes, J., Slingsby, A., Turkay, C. & Wood, J. (2017). Small Multiples with Gaps. IEEE Transactions on Visualization and Computer Graphics
- Goodwin, S., Dykes, J., Slingsby, A., & Turkay, C. (2016). Visualizing multiple variables across scale and geography. IEEE transactions on visualization and computer graphics, 22(1), 599-608.
- Beecham, R., Rooney, C., Meier, S., Dykes, J., Slingsby, A., Turkay, C., Wood, J. & Wong, B.L.W. (2016). Faceted Views of Varying Emphasis (FaVVEs): a framework for visualising multi-perspective small multiples. Computer Graphics Forum
- Turkay, C., Slingsby, A., Hauser, H., Wood, J. & Dykes, J. (2014). Attribute Signatures: Dynamic Visual Summaries for Analyzing Multivariate Geographical Data. IEEE Transactions on Visualization and Computer Graphics, 20.12 (2014)
- Turkay, C., Lex, A., Streit, M., Pfister, H. & Hauser, H. (2014). Characterizing Cancer Subtypes Using Dual Analysis in Caleydo StratomeX. IEEE Computer Graphics and Applications, 34(2), 38-47
- Parulek, J., Turkay, C., Reuter, N. & Viola, I. (2013). Visual cavity analysis in molecular simulations. BMC Bioinformatics
- Turkay, C., Lundervold, A., Lundervold, A.J. & Hauser, H. (2012). Representative factor generation for the interactive visual analysis of high-dimensional data. *IEEE TVCG*, 18(12),
- Šoltészová, V., Turkay, C., Price, M. C. & Viola, I. (2012). A perceptual-statistics shading model. IEEE Transactions on Visualization and Computer Graphics, 18(12)
- Turkay, C., Filzmoser, P. & Hauser, H. (2011). Brushing dimensions--a dual visual analysis model for high-dimensional data. *IEEE Transactions on Visualization and Computer Graphics*, 17(12)