Gromit Yeuk-Yin CHAN

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RESEARCH INTEREST

Visualization, Data Management, Human Computer Interaction

EDUCATION

2016 - 2021 **New York University**
Ph.D in Computer Science
Advisors: *Cláudio T. Silva, Juliana Freire*
Committee: *Enrico Bertini, Luis Gustavo Nonato, Arvind Satyanarayan*

2012 - 2016 **The Hong Kong University of Science and Technology**
BEng in Computer Engineering and BBA in General Business Management
Advisor: *Huamin Qu*

2005 - 2012 **Queen's College, Hong Kong**
Hong Kong Advanced Level Examination: *Distinction in Physics*

PROFESSIONAL EXPERIENCE

2021 July - Now Research Scientist, **Adobe Research**, San Jose, CA

2020 May - Aug Research Intern, **Adobe Research**, San Jose, CA

2019 Jun - Sep Research Intern, **Adobe Research**, San Jose, CA

2019 Feb - Apr Visiting Scholar, **diNo Research Group (Paris Descartes University)**, Paris, France

2017 Jun- Sep Research Intern, **Bosch Research**, Palo Alto, CA

2016 Aug - 2021 July Research Assistant, **NYU VIDA (Visualization, Imaging, and Data Analytics Center)**, Brooklyn, NY

2015 Jun - 2016 Aug Undergraduate Researcher, **HKUST VisLab**, Hong Kong

2015 Jan - May IT Consulting Intern, **IBM Global Business Services**, Hong Kong

2014 Jun - Aug Software Engineering Intern, **Orient Overseas Container Line (OOCL)**, Hong Kong

2013 Sep - Dec Design Consulting Intern, **Harman Kardon**, Hong Kong

2013 Jun - July Logistics Intern, **GE Healthcare**, Beijing, China

PUBLICATIONS (★ indicates premier venues)

Conferences and Journals:

1. Gromit Yeuk-Yin Chan, Tung Mai, Anup B Rao, Ryan A Rossi, Fan Du, Cláudio T Silva, and Juliana Freire.
Interactive Audience Expansion On Large Scale Online Visitor Data.
*International Conference on Knowledge Discovery and Data Mining (**KDD**)*, 2021 ★
2. Gromit Yeuk-Yin Chan, Fan Du, Ryan A Rossi, Anup B Rao, Eunyee Koh, Cláudio T Silva, and Juliana Freire.
Real-Time Clustering for Large Sparse Online Visitor Data.
*The Web Conference (**WWW**)*, 2020 (Accepted for **Oral Presentation**) ★
3. Gromit Yeuk-Yin Chan, Luis Gustavo Nonato, Alice Chu, Preeti Raghavan, Viswanath Aluru, and Cláudio T Silva.
Motion Browser: Visualizing and Understanding Complex Upper Limb Movement Under Obstetrical Brachial Plexus Injuries.
*IEEE transactions on visualization and computer graphics (**TVCG**)*, 2020 (Proceedings of VIS 2019) ★

4. Gromit Yeuk-Yin Chan, Panpan Xu, Zeng Dai, and Liu Ren.
   VIBR: Visualizing Bipartite Relations at Scale with the Minimum Description Length Principle.
   *IEEE transactions on visualization and computer graphics (**TVCG**)*, 2019 (Proceedings of VIS 2018) ★
5. Quan Li, Peng Xu, Yeuk-Yin Chan, Yun Wang, Zhipeng Wang, Huamin Qu, and Xiaojuan Ma.
   A Visual Analytics Approach for Understanding Reasons behind Snowballing and Comeback in MOBA Games.
   *IEEE transactions on visualization and computer graphics (**TVCG**)*, 2017 (Proceedings of VIS 2016) ★
6. Yeuk-Yin Chan and Huamin Qu.
   FinaVistory: Using Narrative Visualization to Explain Social and Economic Relationships in Financial News.
   *International Conference on Big Data and Smart Computing (**BigComp**)*, 2016

Workshops, Demos and Posters:

1. Yeuk-Yin Chan, Fernando Chirigati, Harish Doraiswamy, Cláudio T Silva, and Juliana Freire.
   Querying and Exploring Polygamous Relationships in Urban Spatio-Temporal Data Sets.
   *ACM International Conference on Management of Data (**SIGMOD**)*, 2017 (**Best Demo Honorable Mention**) ★
2. Rong Zheng and Yeuk-Yin Chan.
   You Like What You Hear: Using Movie Content to Improve Movie Recommender Systems.
   Winter Conference on Business Intelligence, 2016
3. Abishek Puri, Dongyu Liu, Shaoyu Chen, Siwei Fu, Tianyu Wang, Yeuk-Yin Chan, and Huamin Qu.
   ParkVis: A visual analytic system for anomaly detection in DinoFun World.
   IEEE VIS Workshop on VAST Challenge, 2015

PATENTS

1. Dynamic Clustering of Sparse Data Utilizing Hash Partitions. Filed in 2020.
2. Methods and Systems for Simplified Graphical Depictions of Bipartite Graphs. US Patent 10,650,559, 2020.

TEACHING

2020 Spring	CS-GY 9223 Visualization for Machine Learning (15 students)
2020 Spring	CS-GY 9223 Visualization: Connections with Machine Learning (23 students)
2018 Fall	CS-GY 6313 Information Visualization (46 students)
2016 Fall	CS-UY 1134 Data Structures and Algorithms (51 students)

PROFESSIONAL SERVICES

Program Committee:

- WWW: 2022

Reviewer:

- ACM CHI: 2021, 2022
- IEEE VIS (InfoVis and VAST): 2019, 2020
- WWW: 2020
- EuroVis: 2017, 2019, 2020
- PacificVis: 2020
- IEEE CG&A
- IEEE TVCG

PRESENTATION, NEWS AND MEDIA COVERAGE

2021	*Data Summaries for Scalable Visual Analysis* Dataminr, New York
2021	*Data Summaries for Scalable Visual Analysis* Megagon Labs, Mountain View
2020	*Data Summaries for Scalable Visual Analysis* Adobe Research, San Jose

2020 *Real-Time Clustering for Large Sparse Online Visitor Data*
The Web Conference, Taipei
2019 *Visualizing and Understanding Complex Upper Limb Movement Under Obstetrical Brachial Plexus Injuries*
IEEE VIS, Vancouver
2018 *Visualizing Bipartite Relations at Scale with the Minimum Description Length Principle*
AT&T Graduate Student Symposium, New York City
2018 *Visualizing Bipartite Relations at Scale with the Minimum Description Length Principle*
IEEE VIS, Berlin
2016 Student Hackers Team Up with Manhattan DA to Fight Human Trafficking
2016 科網雲圖：財經新聞大數據 (in Chinese)
2016 科大生研大數據 獲邀海外演講 (in Chinese)

AWARDS/HONORS/CERTIFICATIONS

2018 VIS Student Volunteer
2017 SIGMOD Student Travel Grant
2016 NYU School of Engineering Fellowship
2016 Bronze Prize of ASM Technology Award
2016 Mr Armin and Mrs Lillian Kitchell Undergraduate Research Award
2016 Technology and Management Elite Student Scholarship
2015 Honorable Mention, IEEE VAST (Visual Analytics Science and Technology) Challenge 2015
2013 HKSAR Government Scholarship Fund - Reaching Out Award
2012 University Entrance Scholarship, HKUST
2012 Morrison Distinction Price, Queen's College

PERSONAL

Computer Skills (that I used often):

- Web Interactive Prototyping: Javascript, Flask
- Geometric Modeling and Computer Graphics: OpenGL, Eigen, libigl, d3.js
- Big Data Computing: MapReduce, Spark, MLlib, Numpy, c++, Matlab

Language: English (professional) (IELTS 8.0), Cantonese (native), Mandarin (native)

Hobbies: Piano (ABRSM Grade 8), Driving, Cycling, Travelling