

CHRYSOVALANTIS ANASTASIOU

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EDUCATION

Los Angeles, California	University of Southern California	Expected December 2021
<ul style="list-style-type: none">Ph.D. in Computer Science, Current GPA: 3.89/4.0Research Interests: spatial-temporal data management & analytics, databases, distributed systems, IoT		
Los Angeles, California	University of Southern California	Received May 2017
<ul style="list-style-type: none">M.Sc. in Computer Science, Data Science, GPA: 3.88/4.0 (<i>Fulbright Scholar</i>)Coursework: Analysis of Algorithms, Geospatial Information Management, Machine Learning, Artificial Intelligence		
Nicosia, Cyprus	University of Cyprus	Received Jun 2015
<ul style="list-style-type: none">B.Sc. in Computer Science, GPA: 9.15/10 (Ranked 1st in class out of 83)Coursework: Advanced Topics in Databases, Data Structures, Systems Programming, Data Mining in the Web		

PUBLICATIONS

- "ADMSv2: A Modern Architecture for Transportation Data Management and Analysis," **C. Anastasiou**, J. Li, C. He, Y.-Y. Chiang, and C. Shahabi, 2nd ACM SIGSPATIAL International Workshop on Advances in Resilient and Intelligent Cities (ARIC), Chicago, 2019
- "Time-Dependent Reachability Analysis: A Data-Driven Approach," **C. Anastasiou**, C. Huang, S.H. Kim, and C. Shahabi, 20th IEEE International Conference on Mobile Data Management (MDM), 2019.
- "MRCubes: On-the-fly Computation of Location Popularity from Check-in Data Streams," G. Constantinou, **C. Anastasiou**, D. Stripelis, C. Shahabi, 20th IEEE International Conference on Mobile Data Management (MDM), 2019.
- "Extending Apache Spark with a Mediation Layer", Dimitris Stripelis, **C. Anastasiou**, and Jose Luis Ambite, Semantic Big Data Workshop, SIGMOD, June 10, Houston, TX USA, 2018.
- "Rayzit: An Anonymous and Dynamic Crowd Messaging Architecture", Constantinos Costa, **Chrysovalantis Anastasiou**, Georgios Chatzimilioudis and Demetrios Zeinalipour-Yazti, Proceedings of the 3rd IEEE International Workshop on Mobile Data Management Mining and Computing on Social Networks collocated with IEEE MDM '15 (Mobisocial '15), Volume 2, Pages: 98-103, Pittsburgh PA USA, 2015.

SKILLS & TECHNOLOGIES

- Programming Languages:** Java, Scala, C/C++, Python, Kotlin, HTML5, CSS, JavaScript, PHP
- Frameworks / SDKs:** Apache Spark, Map Reduce, iOS, Android
- Database Management Systems:** Microsoft SQL Server, MySQL, Couchbase, MongoDB, PostgreSQL

WORK EXPERIENCE

Research Intern	Google Inc., Mountain View	May 2020 – Aug 2020
<ul style="list-style-type: none">Understanding the language of hashtags through Natural Language ProcessingPredicting and/or synthesizing hashtags for web documents		
Software Engineering Intern	Google Inc., Mountain View	May 2019 – Aug 2019
<ul style="list-style-type: none">Design and implementation of a major Data Management component for a new Google Cloud vertical product.Improvement of the product's testing infrastructure.		
Software Engineering Intern	Google Inc., Mountain View	May 2018 – Aug 2018
<ul style="list-style-type: none">Research in Earthquake detection using smartphone sensor data.Designed and developed a modular toolset for ingesting public seismic data.		
Research Assistant	IMSC, Viterbi School of Engineering, USC	Aug 2017 –
<ul style="list-style-type: none">ADMS: Archived Transportation Data Management System.Intelligent IoT Integrator: A marketplace for IoT data streams.Agora: A Spatial-Temporal Index for real-time Approximate Location Popularity in Multiple Resolutions.		
Software Engineering Intern	Bloomberg LP, New York	Jun 2017 – Aug 2017
<ul style="list-style-type: none">Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none">Improved performance of company's internal local cache framework and added new features.Developed a benchmarking framework for all types of cache systems.Designed and implemented a module for suggesting optimal cache configuration parameters.		
Software Engineering Intern	Bloomberg LP, New York	Jun 2016 – Aug 2016
<ul style="list-style-type: none">Software Infrastructure / Systems Cache Infrastructure<ul style="list-style-type: none">Integration of in-house database's new features with the internal Tiered Cache Framework.		

- Automated the deployment of Tiered Cache framework.

Software Engineer
iOS Lead Developer

Funifi LTD (startup), Cyprus

Aug 13 – Jul 2015

- Collaborated cheerfully with the iOS team in developing Funifi DO, the company's core app.
- Backend Servers management, website maintenance, office network administration.

Research Assistant

Data Management Systems Laboratory, UCY

Sep 2013 – Jul 2015

- **Thesis: "TelcoWare: An Extensible Big Data Processing Architecture for the Telecom Industry"**
 - Designed the overall architecture of the system.
 - Implemented data connectors on Apache Spark for ingestion.
 - Developed a module to store data and analytics in Couchbase.
- Implemented an iOS spatial data management engine for the major GIS company in Cyprus (AppStore).
- **Rayzit: A crowd messaging application that delivers your questions, inquiries and ideas to the closest users around**
 - Implemented a complete iOS stack for the award-winning application.

Research Assistant

Laboratory of Internet Computing, UCY

Apr 2013 – Aug 2013

- **CELAR: Automatic, multi grained elasticity – provisioning for the Cloud**
 - Developed an aggregation and statistics Web API module for the servers monitoring.
 - Implemented a simple web UI for the servers' stats.

CONFERENCES & PANELS

- Appointed Officer & Organizing committee member, ACM SIGSPATIAL **Sep 2017 -**
- Evaluator, 7th National Logipaignion Contest for Elementary and High School Students, <http://logipaignion.cs.ucy.ac.cy/2015> **Apr 2015**
- Panel Member, ICT Conference, Nicosia, Cyprus **Oct 2013**

OTHER ACADEMIC EXPERIENCE

- **UCYApp:** Bringing together all the services of University of Cyprus in a single mobile app.
 - Led team of 5. Designed the architecture. Developed the web and iOS stacks.
- **NearFieldCare:** A single tap can save your life (Imagine Cup 2013)
 - Worked on the complete Windows Phone stack of the project.

AWARDS & ACHIEVEMENTS

- IEEEExtreme 8.0 programming competition, ranked 108th/1700 teams worldwide
- Fulbright Student Scholarship recipient for graduate studies in USA (Fall 2015)
- ACM SIGMOD 2014 Programming Contest, ranked 4th nationwide and 13th/33 teams worldwide
- Microsoft Imagine Cup 2013 World Wide finalist and National Winner
- Won a place at the Ice Climate Education campus in 2008, an international youth campus that took place in Iceland.