

Kostantinos Papadamou

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Experience

- 2021–Current **Postdoctoral Researcher**, *University College London*.
Working with Dr. Emiliano De Cristofaro on the REPHRAIN project while undertaking research in the field of Social Network Analysis and Deep Learning.
- 2020–Current **CEO & Co-Founder**, *Trinomial Technologies, Ltd*.
An SME founded by me and other passionate entrepreneurs, which aims at performing research, development, and innovation. The vision of the company is to bring innovative products to the market exploiting cutting-edge research and innovative technologies.
- 2015–2021 **Research Fellow**, *Cyprus University of Technology*.
Worked with Dr. Michael Sirivianos on EU-funded projects. In the context of these projects, I developed several cross-platform Web and Mobile applications, and I had the technical lead of most of these projects. At the same time, in the context of my PhD studies, I was also undertaking research in the fields of Authentication Security, Social Network Analysis, and Identity Management on the Web.
- 2020 **Research Intern**, *LSTech*, Madrid.
Worked on the SECONDO and INCOGNITO EU-funded projects. In SECONDO, we worked on the development of a Big Data Collection and Processing module that is responsible to collect risk-related data from internal and external organizational sources for Cybersecurity Risk Assessment. In INCOGNITO, we worked on the development of an Identity Acquisition and Management platform, as well as the design of an Artificial Intelligence (AI)-based assistant that guides users in managing several aspects of their identity on the Web.
- May–Nov 2018 **Research Intern**, *Telefonica I+D*, Barcelona.
A research internship where I worked with Dr. Jeremy Blackburn, Dr. Ilias Leontiadis, and Dr. Nicholas Kourtellis. We studied the problem of inappropriate YouTube videos targeting young children utilizing Deep Learning, Big Data Analysis, and Graph Analysis.

Education

- 2016–2021 **PhD in Computer Science**, *Cyprus University of Technology*.
Dissertation: “Characterizing Abhorrent, Misinformative, and Mistargeted Content on YouTube”
Advisor: Dr. Michael Sirivianos
- 2014–2016 **MSc in Computer Science**, *Cyprus University of Technology*.
Thesis: “From Real-world Identities to Privacy-preserving and Attribute-based Credentials for Device-centric Access Control”
Advisor: Dr. Michael Sirivianos
- 2010–2014 **BSc in Computer Science**, *Cyprus University of Technology*.
Thesis: “Mapping a User’s Real Life Persona to a Verifiable Online Identity”
Advisor: Dr. Michael Sirivianos

Selected Projects

- IDifier Combating identity fraud on the Internet (idifier.com)
- ReCRED From Real-world Identities to Privacy-preserving and Attribute-based Credentials for Device-centric Access Control (recred.eu)
- INCOGNITO IdeNtity verifiCatiOn with privacy-preservinG credeNtlals for anonymous access To Online services (incognito.socialcomputing.eu)
- ENCASE ENhancing seCurity and privAcY in the Social wEb: a user-centered approach for the protection of minors (encase.socialcomputing.eu)

- SECONDO a Security ECONomics service platform for smart security investments and cyber insurance pricing in the beyond 2020 networking era (secondo-h2020.eu)
- CONCORDIA Cyber security cOmpeteNCe fOr Research anD InnovAtion (concordia-h2020.eu)

Programming Skills & Knowledge

- Knowledge Big Data Analysis, Deep Learning, Reinforcement Learning, Social Network Analysis, Cybersafety, Authentication Security, Web & Mobile Application Development
- Protocols OpenID Connect, OAuth2.0, FIDO2.0, Near Field Communication (NFC), User-Managed Access (UMA), Attribute-Based Access Control, WebRTC
- Programming Python, PHP, Node.js, HTML/CSS, Javascript, Android
- Databases SQL (MySQL, PostgreSQL), NoSQL (MongoDB)
- Linux Git, Bash, Docker, Nginx

Selected Publications

For a full list of my publications see my [Google Scholar profile](#): 9 publications with 159 citations and h-index 5 (as of October 2021).

Conferences

- [1] **Kostantinos Papadamou**, Savvas Zannettou, Jeremy Blackburn, Emiliano De Cristofaro, Gianluca Stringhini and Michael Sirivianos. "It is just a flu": Assessing the Effect of Watch History on YouTube's Pseudoscientific Video Recommendations. *In 16th International AAAI Conference on Web and Social Media (ICWSM), ICWSM '22, 2022.*
- [2] **Kostantinos Papadamou**, Savvas Zannettou, Jeremy Blackburn, Emiliano De Cristofaro, Gianluca Stringhini and Michael Sirivianos. "How over is it?" Understanding the Incel Community on YouTube. *In 24th ACM Conference on Computer-Supported Cooperative Work and Social Computing, CSCW '21, 2021.*
- [3] **Kostantinos Papadamou**, Antonis Papasavva, Savvas Zannettou, Jeremy Blackburn, Nicolas Kourtellis, Ilias Leontiadis, Gianluca Stringhini and Michael Sirivianos. Disturbed YouTube for Kids: Characterizing and Detecting Inappropriate Videos Targeting Young Children. *In Proceedings of the International AAAI Conference on Web and Social Media (Best Paper Honorable Mention), ICWSM '20, 2020.*
- [4] Harris Partaourides, **Kostantinos Papadamou**, Nicolas Kourtellis, Ilias Leontiadis and Sotirios Chatzis. A Self-Attentive Emotion Recognition Network. *In Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP '20, 2020*
- [5] Antigoni Parmaxi, **Kostantinos Papadamou**, Michael Sirivianos, and Makis Stamatelatos. E-safety in Web 2.0 Learning Environments: A Research Synthesis and Implications for Researchers and Practitioners. *In 4th International Conference on Learning and Collaboration Technologies, LCT '17, 2017*
- [6] Andreas Tsirtsis, Nicolas Tsapatsoulis, Makis Stamatelatos, **Kostantinos Papadamou** and Michael Sirivianos. Cyber Security Risks for Minors: A Taxonomy and a Software Architecture. *In 11th International Workshop on Semantic and Social Media Adaptation and Personalization, SMAP '16, 2016*

Journals

- [7] **Kostantinos Papadamou**, Savvas Zannettou, Giuseppe Bianchi, Alberto Caponi, Annamaria Recupero, Steven Gevers, George Gugulea, Sorin Teican, Bogdan Chifor, Christos Xenakis and Michael Sirivianos. Killing the Password and Preserving Privacy with Device-Centric and Attribute-based Authentication. *IEEE Transactions on Information Forensics and Security (15), 2019.*

Workshops

- [8] Savvas Zannettou, Sotirios Chatzis, **Kostantinos Papadamou** and Michael Sirivianos. The Good, the Bad and the Bait: Detecting and Characterizing Clickbait on YouTube. *In IEEE Security and Privacy Workshops*, SPW '18. IEEE, 2018.

Selected Press Coverage

- 2019 The **New York Times** wrote an article and published a video mentioning our work on disturbing YouTube videos targeting young children (<https://nyti.ms/36zDgiF>).
- 2019 The **Washington Post** covered our work on detecting disturbing YouTube videos targeting young children (<https://wapo.st/3pBHy1V>).
- 2019 The **New Scientist** wrote an article covering our work on detecting disturbing videos targeting young children on YouTube (<https://www.newscientist.com/article/2196040-children-can-find-inappropriate-videos-on-youtube-in-just-10-clicks>).
- 2019 The **Business Insider** wrote an article mentioning our work on disturbing YouTube videos targeting young children (<https://www.businessinsider.com/mms-jim-humble-bleach-autism-cure-youtube-2019-5>).
- 2018 **European Commission's CORDIS portal** published an article covering our work on the ReCRED EU-funded project on killing the password and preserving users' privacy with device-centric and attribute-based access control (<https://cordis.europa.eu/article/id/238602-no-more-password-mayhem>).
- 2018 **El Pais** published an article covering our work on the ReCRED EU-funded project and on replacing passwords with device-centric access control (https://elpais.com/tecnologia/2018/10/17/actualidad/1539734442_630080.html).
- 2018 **Philenews** wrote an article covering the ReCRED EU-funded project and our work at Cyprus University of Technology on killing the password with device-centric authentication (<https://www.philenews.com/european-union/eidiseis/article/605519/de-thymaste-ton-kodiko-sas-erevnites-toy-tepak-dinoyn-tin-apantisi>).

Teaching

- 2017–2019 **Teaching Assistant**, Course on the postgraduate "Advanced and Distributed Operating Systems", Cyprus University of Technology.
- 2017–2019 **Teaching Assistant**, Course on "Data Structures and Algorithms", Cyprus University of Technology.
- 2015 **Teaching Assistant**, Course on "Web Design and Engineering", Cyprus University of Technology.

Service

- 2021 **External Reviewer**, ACM CSCW and ACM CHI.
- 2021 **External Reviewer**, AAAI ICWSM 2021.
- 2021 **External Reviewer**, IEEE Internet Computing.
- 2020 **External Reviewer**, ACM CoNEXT 2020.
- 2020 **External Reviewer**, IEEE Internet Computing.
- 2020 **External Reviewer**, IEEE Internet of Things Journal.
- 2019 **External Reviewer**, IEEE Communications Magazine.
- 2018 **External Reviewer**, ACM ARES 2018.

Awards

- 2020 Best Paper Honorable Mention Award at AAAI ICWSM 2020 ([link](#))
- 2018 IEEE Student travel grant for attending IEEE Symposium on Security and Privacy 2018