



NOKIA Bell Labs Summer Internships Cambridge 2019

The **Social Dynamics team** at Bell Labs Cambridge (UK) welcomes an interdisciplinary community of **PhD students** for **three months** in its mission to explore the area of Computational Social Science for the key themes of Urban, Health, and Culture; Complex Networks; Interaction Design; Data Mining; and Computer Vision. Internships are **fully paid** and generally go from the beginning of June to the end of August.

Nokia and Bell Labs

Nokia is a global leader in the technologies that connect people and things. Powered by the pioneering work of Bell Labs, our research division, we are at the forefront of creating and licensing the technologies that are increasingly at the heart of our connected lives. Bell Labs is a worldwide research and development community that focuses its efforts on key technologies. It is renowned as the birthplace of modern information theory, the transistor, the laser and the UNIX operating system.

Bell Labs Cambridge

The Social Dynamics team works on the idea of a society empowered by digital data with the goal of finding solutions to real problems and contributing to generalizable knowledge. As part of the emerging research area of "Computational Social Science", we answer questions typical of social sciences using computational methods and produce long-term research (in very 'Bell Labs' style). Team members include Daniele Quercia (www.researchswing.org) and goodcitylife.org), Luca Maria Aiello (www.lajello.com), Sanja Scepanovic (sanja7s.space), Marios Constantinides (comarios.com), and Ke (Adam) Zhou (sites.google.com/site/keadamzhou).

Internship projects and requirements

- **Visual AI** - Creating new beautiful and elegant techniques to display and visualize the results of state-of-the-art artificial intelligence models. Experience with Web Design and Frontend Development (HTML5, Javascript, D3)
- **The Language of Love** - Learn the typical markers of different types of social exchange from large corpora of text. Enrolled in PhD in Computer Science or related fields. Experience with Python, Machine Learning, Natural Language, and Big Data.
- **Tracking Well-being with Mobile Sensing** - Develop mobile-sensing solutions to obtain physiological readings and build models to measure psychological well-being. Enrolled in PhD in Computer Science, Human-Computer Interaction or related fields. Experience with Python, Machine Learning, Mobile and Wearable Development.
- **The Social Life of Cities** - Investigate how the urban space shapes our social relationships. Enrolled in PhD in Computational Social Science or related fields. Experience with Python, GIS, and network analysis.
- **Healthy City and Human Behavior** - Investigate how air and sound pollutions affect human behavior. Enrolled in PhD in Computer Science, Geography, Physics or related fields. Experience with Python, GIS, and Geographic Studies.
- **Look from Above** - Investigate the usefulness of satellite data for discovering intangible urban properties such as dwellers' happiness. Enrolled in PhD in Computer Science, Geography or related fields. Experience with Python, Computer Vision (experience with Deep Learning is a plus), GIS, and Web Development.
- **Exploring Causality in Well-being Data** - Study observational social media data reflecting emotional support online and explain causal relationships. Enrolled in PhD in Computer Science or related fields. Experience with Python, Machine Learning, Causality, and Web Development.

Please send your **application** in pdf format (e.g., detailing which project you'd like to work on, and how your background fits that project) with the subject line "Internship 2019" to daniele.quercia@nokia-bell-labs.com by the **27th of January 2019**. Your application material will be used solely for the purpose of selecting internship candidates and will be deleted as soon as the selection is complete. You are welcome to drop Daniele an email for formal enquiries.