Host University: Universität Zurich

Field: Information Technology, Business and administration, Economics

Specified field, subject: Networking Engineering

Research project title: Networking Engineering: Managerial big data analytics

Possible starting month(s): Sep Oct Nov Dec Jan Fev Mar Apr May Jun Jul Aug ☒ ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Possible duration in months: 1 2 3 4 5 6 ☒ ☐ ☐ ☒ ☒ ☒ ☒

Exact starting and end dates will be discussed between the supervisor and the student

Suitable for students in: ☒ Bachelor level ☒ Master level

Prerequisites: Fundamental knowledge in data science, data analytics, statistics and econometrics. Strong interest to answer applied managerial questions.

Restrictions: NONE

Description (maximum 2,000 characters):
The analysis of networks is an interdisciplinary topic involving concepts from management, marketing, mathematics, physics, computer science, economics and other social sciences. It aims at understanding a wide variety of networks, such as friendship networks, company networks, markets or the Internet. By studying the network structure one can answer questions like: how does information spread in a network, how do people form opinions and how consensus is reached or how is our behavior influenced by the friends we have and at the same time how our behavior determines which people become our friends. The goal of this project is to understand existing literature, to implement in R methods described and to evaluate its performance using simulations. After finishing the project the student will have a good knowledge of social networks and will be familiar with the use of R for scientific research. The project is available in the Fall and Spring semester and is also open for recently graduated undergraduate students. Number of places available: 3 per semester.

Note: Research project may be adapted according to the student profile and the period/timeline.
Department: URPP Social Networks, Department of Business Administration

Contact person, including position: Andrea Orbann, Head of Student Mobility

Contact email: incoming@int.uzh.ch

Deadline for nomination to reach host university: Ongoing

Notification of admission given by the end of: Given within 4 weeks

Additional information: NA