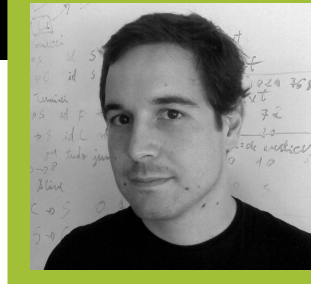
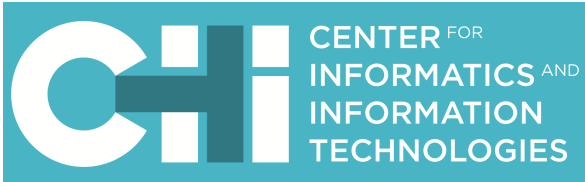


## DEPARTAMENTO DE INFORMÁTICA

### Geographic Information and Simulation Systems

MULTIMODAL SYSTEMS / GISS



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MSc in Computer Science,  
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Research on spatial  
simulation, emergency  
management and  
collaboration.

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## Objectives

Developing collaborative information representation models and tools to analyse computer supported cooperative work.

Explore the cartographic metaphor for cooperation representation and visualization.

Developing integration systems for emergency management systems.

## Methodology

Modelling CSCW networks and social networks, determining distances between users and topics, enabling the identification of potential links for collaboration or relationships.

Integration of the collaborative information representation model with network visualization tools. Using Flickr data for social network inference as use case.

Developing a framework for the integration of sensor data with information visualization for risk analysis. Using flood forecast in two Portuguese coastal areas as use case.

## Expected Results

Validation of the collaboration representation model and identification of the metrics (distances between users, keywords, etc.) that lead to useful collaborative links. This enables the definition of suggestion channels for CSCW applications.

Validation of the emergency management support framework.

