about

123 E 26th PL
Tulsa, OK
918-978-0601

ian.riley.915@gmail.com
github/ttowncompiled

programming

TypeScript, JavaScript,
Dart, Python, Go, Java

contributions

Angular
DefinitelyTyped
Rx
TypeScript

interests

software development, application framework development, software architecture && design patterns, language design, machine learning

education

'12-'16	**University of Tulsa**	senior of computer science and mathematics

gpa: 3.47

experience

'15 **Google MTV** SWE intern on Angular

Designed and implemented the TacticalJS data persistence library for Angular. Tactical was my first attempt at creating the MVP for a new project using formal design patterns and techniques.

'14 **Google CAM** EP intern on Pinpoint

Implemented an internal UI to improve the workflow for creating pipelines of structured data for search.This was my first opportunity to think critically about end user experience and test driven design

research

'13-'14 **RFID Research Grant** academic research

Developed protocols to concisely and securely store standard adult vaccination information on 2000 bit RFID tags.

'13 **Tulsa Undergraduate Research Challenge** academic research

Worked with a small team to design a dynamic risk access control system. This system extended the spatial access control model by employing probabilistic graphical models such as Bayesian networks and Markov chains for decision making.

organizations

'14-'15 **Linux Users Group** president

Conducted several meetings and headed a few projects over the course of the year which included research ventures into topics such as code reusability, workstation efficacy, net neutrality, and even bitcoins.

'13-'15 **Tulsa Web Devs** member && contributor

Contributed to numerous local and national civic hacking events targeting areas such as local city organization, public health, and food equality.

'13-'15 **Association of Computing Machinery** operations chair

Facilitated over two dozen lunch and learns, covering various topics, each year. I have also helped organize several collegiate and civic hackathons as well as have spearheaded a few extended hackathons focused on building code confidence in freshmen programmers.

publications

article in peer-reviewed journal

Electronic Sensors for Assessing Interactions between Healthcare Workers and Patients under Airborne Precautions
Jean-Christophe Lucet, Cédric Laouenan, Guillaume Chelius, Nicolas Veziris, Didier Lepelletier, Adrien Friggeri, Dominique Abiteboul, Elisabeth Bouvet, France Mentré, Eric Fleury
PLoS ONE *7.5 (May 2012) e37893. 2012*

Reconstructing Social Interactions Using an unreliable Wireless Sensor Network
Adrien Friggeri, Guillaume Chelius, Eric Fleury, Antoine Fraboulet, France Mentré, Jean-Christophe Lucet
Computer Communications *34.5 (Apr. 2011) pp. 609–618. Elsevier, 2011*

A Real-World Spreading Experiment in the Blogosphere
Adrien Friggeri, Jean-Philippe Cointet, Matthieu Latapy
Complex Systems *19.3 (2011). Complex Systems Publications, Inc., 2011*

international peer-reviewed conferences/proceedings

Egomunities, Exploring Socially Cohesive Person-based Communities
Adrien Friggeri, Guillaume Chelius, Eric Fleury
NetSci 2011 The International School and Conference on Network Science, 2011, Budapest, Hongrie

Fellows: Crowd-sourcing the evaluation of an overlapping community model based on the cohesion measure
Adrien Friggeri, Guillaume Chelius, Eric Fleury
Interdisciplinary Workshop on Information and Decision in Social Networks, 2011, Cambridge, États-Unis

Fellows: Crowd-sourcing the evaluation of an overlapping community model based on the cohesion measure
Adrien Friggeri, Guillaume Chelius, Eric Fleury
Complex Dynamics of Human Interactions, 2011, Vienna, Autriche

Triangles to Capture Social Cohesion
Adrien Friggeri, Guillaume Chelius, Eric Fleury
Third IEEE International Conference on Social Computing, 2011, Cambridge, États-Unis

Electronic Sensors for Measuring Interactions between Healthcare Workers (HCWs) and Patients (Pts): the Case of Tuberculosis (TB)
Jean-Christophe Lucet, Guillaume Chelius, Cédric Laouenan, Adrien Friggeri, N. Veziris, D. Lepelletier, D. Abiteboul, Elisabeth Bouvet, Eric Fleury, France Mentré
2010 Interscience Conference on Antimicrobial Agents and Chemotherapy, 2010, Boston, États-Unis

local peer-reviewed conferences/proceedings

Communautés : Arrêtons de ne compter que les arêtes
Adrien Friggeri, Guillaume Chelius, Eric Fleury
13es Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel), 2011, Cap Estérel, France

Trouver des communautés socialement cohésives est NP-dur
Adrien Friggeri, Guillaume Chelius, Eric Fleury
13emes journées Graphes et Algorithmes, 2011, Lyon, France

Biais dans les mesures obtenues par un réseau de capteurs sans fil
Adrien Friggeri, Guillaume Chelius
12èmes Rencontres Francophones sur les Aspects Algorithmiques de Télécommunications (AlgoTel), 2010, Belle Dune, France

other publications

Des triangles pour mesurer la cohésion sociale : Fellows, une expérimentation sur Facebook
Adrien Friggeri, Eric Fleury
Séminaire w2s @ La Cantine, 2011

research reports

Finding cohesive communities with C³
Adrien Friggeri, Eric Fleury
Rapport de recherche RR-7947, 2012

Egomunities, Exploring Socially Cohesive Person-based Communities
Adrien Friggeri, Guillaume Chelius, Eric Fleury
Rapport de recherche RR-7535, 2011

Triangles to Capture Social Cohesion
Adrien Friggeri, Guillaume Chelius, Eric Fleury
Rapport de recherche RR-7686, 2011

Maximizing the Cohesion is NP-hard
Adrien Friggeri, Eric Fleury
Rapport de recherche RR-7734, 2011