

# Certified Static Analysis by Abstract Interpretation

David Pichardie

INRIA Rennes

with good help from Gilles Barthe, Frédéric Besson, David Cachera, Pierre Crégut, Thomas Jensen,  
Benjamin Grégoire, Laurent Hubert, Tamara Rezk, Tiphaine Turpin  
and  
partly supported by the IST FET IP “Mobius” project

9th International School on Foundations of Security Analysis and Design,  
Bertinoro, Italy, September 3, 2009

# Outline

- 1 Introduction
  - Information flow analysis
  - Data Race analysis
- 2 A Certified Lightweight Array Bound Checker