



Imen Bouhlel

*PhD Student in Economics, Université Cote d Azur
Lab Manager of the Laboratory of Experimental Economics of Nice*

Research and Skills

- Research Interests Behavioral and Experimental Economics, Cognitive Sciences, Agent-based modeling, Individual Decision Making, Optimal stopping problems, Exploration and Exploitation, Satisficing, Regret, Social Networks, Social Interactions, Learning dynamics
- Competences Statistics, Optimization, Advance Econometrics, Time Series, Data Analysis, Experimental Methodology, Agent-based modeling
- Tools **Statistics & Econometrics** : SAS, R, Matlab; **Informatics** : Python, C, C++, Java, Linux, Php, Css, Html, javascript, MySQL, VBA, Netlogo, Ztree, oTree

PhD Thesis (since 2014)

- Title *Emotions and dynamics of transmission of informations and knowledge within different typologies of social networks of economic agents*
- Supervisors Professor Agnes Festre and Associate Professor Eric Guerci

Lab Manager (since 2014)

- Title *Lab Manager of the Laboratory of Experimental Economics of Nice (LEEN, <http://leen.unice.fr>)*
- Description Development and management of the online recruitment system for economic experiments
Integration of online experiments
Server and experiments administration
Support for the integration and use of physiological data sensors

Education

- 2013-2014 **Master 2 in Behavioral Economics, Knowledge and Organization**, *University of Nice*, GREDEG, France.
- Courses Behavioral Economics, Experimental Economics, agent based simulation, Economy of new technologies, Networks Economics, Competition Policy
- Dissertation "Luck Versus Reinforcement Learning or Learning To Be Lucky"; **Supervisors** : Professor Pierre Garrouste and Associate Professor Eric Guerci
- 2012-2013 **Master 2 in Mathematical Engineering, Speciality : Economics, Finance, Actuarial**, *University of Nice*, Faculty of Sciences, France.
- Courses Statistics, Econometrics, SAS, Data Analysis, Time Series, Stochastic Calculus, Numerical Methods, Finance, Actuarial, English
- Dissertation "Heteroscedasticity under the linear mixed model : Diagnostics and Treatment" (*BOUHLEL, I. (2013)*); **Supervisors** : Associate Professor Christine Malot and Doctor Olivier Moranne

2011-2012 **Master 1 in Engineering Mathematics and Applied Economics**, *University of Nice*.

2008-2011 **Licence in Applied Mathematics and Social Sciences**, *University of Nice*.

Summerschools, Conferences and Workshops

- Apr 2017 GREDEG seminar on Experimental Economics, Nice, France
- Jul 2016 IMPRS poster session, Jena, Germany
- Jul-Aug 2016 IMPRS summer school, Jena, Germany
- Jun 2016 WEHIA workshop, Castellon, Spain
- Jun 2016 ASFEE workshop, Paris, France
- Feb 2016 GREDEG seminar on Experimental Economics, Nice, France
- Nov 2015 CNRS thematic summer school MAPS 8 on Agent based Modeling of Spatialised Phenomena, Colle-sur-loup, France
- May 2015 WEHIA - Doctoral Summer School, Nice, France

Organization Experience

- May 2015 20th **Annual Workshop on the Economic Science with Heterogeneous Interacting Agent (WEHIA)**, *Member of the Organizing committee of the WEHIA Doctoral Summer School, Nice, France.*

Ongoing Work

Sharing is not erring : How environments can encourage pseudo-reciprocity in collective human search, *with Charley M. Wu.*

Information sharing in competitive environments may seem counterintuitive, yet is widely observed in both human and animal behavior. In ecology, it has been observed that many species use mass recruitment systems when foraging for resources to help locate the resource. More generally, this behavior is known as pseudo-reciprocity, and mainly depends on the distribution of resources in the environment. In which environments will we find stable pseudo-reciprocity behavior in humans and when will we fail to find it? We present a collective search task over a two dimensional search space, where human participants are given a finite search horizon to search for rewards, and where they are given the possibility to either share their location with the other players, or withhold the information. We hypothesize that stable pseudo-reciprocity will more likely be observed in dynamic and sparse reward environments, where the task of finding rewards is more difficult without cooperation.

Theoretical and Experimental investigation of an individual sequential search problem, *with Agnes Festre, Eric Guerci and Michela Chessa.*

Our paper lies on the conceptual framework for the analysis of an individual search task related to the consumption of an experience good. In our model, we suppose that a best choice exists among a set of alternatives and the customer is willing to locate it. The total amount of time for searching is finite and the customer aims at maximizing the expected payoff given by an exploration-exploitation compromise. We theoretically model our situation as a class of stopping rule problems, then we experimentally test the results on adults and children. We also study the learning dynamics and propose a possible interpretation in terms of regret.

Cognitive Hysteresis in a Repeated Ultimatum Game, *with Eric Guerci and Alan Kirman.*

We investigate the role of cognitive hysteresis on individuals perception of (un)fairness. For that, we study phase transitions in the repeated ultimatum game. The preliminary results show that only a part of the subjects behave in the simple monotonic way that would correspond to having a threshold, even a moving one. The examination of brain activity would allow to investigate what sort of reasoning or emotional reaction is occurring in those who do not exhibit this simple pattern.

Luck Versus Reinforcement Learning or Learning To Be Lucky, Master Thesis.

We develop an agent-based model based on Hanaki and al (2011) model which suggests that luck is not exogenous to individuals and that people can learn to behave in a way which makes them persistently unlucky or lucky under given conditions. Most of the results we obtain are consisting with Hanaki and al (2011). We also analyze two additional cases of the model. These two additional cases confirm our results. We finally propose two extensions of the model which could allow testing it in the reality with human agents.

Teaching Experience

- 2016-2017 **Behavioral and Experimental Economics** , *Université de Nice*, Teaching Assistant, ungraduate students.
- 2015-2016 **Initiation to Experimental Economics**, *Université de Nice*, Teaching Assistant, high-school students.
- 2014-2017 **Statistics**, *Université de Nice*, Teaching Assistant, ungraduate students.
- 2014-2015 **Microeconomics**, *Université de Nice*, Teaching Assistant, ungraduate students.
- 2014-2016 **Research Engineer**, *Université de Nice*, Support to pedagogical innovation within the University.

Traineeships

- 2013 **Project manager in BioStatistics Studies**, *Nephrology Department, Pasteur Hospital (CHU)*, Nice, France.
Literature review on statistical methods proposed for a specific problem in the processing of quantitative longitudinal data
Application to a real data set as part of an observational study of the development of chronic kidney disease (SAS)
- 2011 **IT Project manager**, *LEONI Tunisia*, Sousse, Tunisia.
Design and development of a portal for self-assessment of customer satisfaction surveys (Design using UML, Development environment -JAVA : JDK, Eclipse, Tomcat, Tapestry, Hibernate, JPA, MySQL, Ant)