Imen Bouhlel

PhD Student in Economics, Université de Nice and Lab Manager of the Laboratory of Experimental Economics of Nice (LEEN), Nice

Research and Skills

Research Interests	Behavioral and Experimental Economics, Cognitive Sciences, Agent-based modelling, Individual Decision Making, Social Networks, Social Interactions, Learning dynamics, Sequential search, Optimal stopping problems, exploration and exploitation, Satisficing, Regret
Competences	Statistics, Optimisation, Advance Econometrics, Time Series, Stochastic Calculus, Data Analysis, Experimental Methodology, Agent-based modelisation
Statistics and Econometrics tools	SAS, R, Eviews, STATA, Matlab
Informatics	C, C++, Java, Linux, Pyhton, Html, Javascript, Php, Css, MySQL, VBA, Netlogo, GAMA, Ztree, oTree
Conception	UML
Other	C2I : Informatics and Internet Certificate
Languages	French (mother language), English (advanced), Spanish (intermediate), Arabic (mother language)

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)*
Website	http ://leen.unice.fr
Description	Development and management of the online recruitment system for economic experiments Integration of online experiments Server and experimets administration Support for the integration and use of physiological data sensors

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Education

2013-2014 **Master 2 in Behavorial 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"

Supervisor 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 : Diagnotics and Tratment"

Supervisor Associate Professor Christine Malot and Doctor Olivier Moranne

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

Courses Econometrics, Statistics, Actuarial, Optimization, Computer Science, English, Finance

Dissertation Sovereign Wealth Funds and Stability

Supervisors Professor Thomas Jobert

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

Courses Mathematics, Statistics, Economics, Computer Science, Data Analysis, Data Mining, English

Summerschool, Conference and Workshop

Jul 2016 IMPRS poster session, Jena, Germany

Jul-Aug 2016 IMPRS summer school, Jena, Germany

Jun 2016 WEHIA workshop, Casstellon , Spain

Jun 2016 ASFEE workshop, Paris, France

Feb 2016 GREDEG seminar on Experimental Economics, Nice, France

Dec 2015 D2E (Experimental Economics Developpers) Workshop, Montpellier, France

Nov 2015 CNRS thematic summer school MAPS 8 on Agent based Modeling of Spatialised Phenomena, Nice, France

May 2015 WEHIA - Doctoral Summer School, Nice, France

Ongoing Work

2016 **Individual Reinforcement Learning in the context of a search task, an experimental perspective**, *with Agnes Festre, Eric Guerci, Michela Chessa and Corrado Lagazio*.

The purpose of our paper is to investigate how consumers make choices in the context of an individual search task (e.g., searching for a restaurant in a city). The search task relates to the consumption of an experience good that is, by definition, characterized by uncertainty as regards its quality. Nowadays it is true that consumers exploit more and more user-generated information that is shared on social media to make more informed and efficient decisions. By the way, an investigation on the role of network externalities is postponed to future research. The goal of this research is to give some predictions as to the behavior of the individuals in the context of a search task and to validate a behavioral model that has been developed in parallel by the authors. Two approaches are used : a theoretical model, that is later tested through a lab experiment.

2015 **Cognitive Hysteresis in a Repeated Ultimatum Game**, *with Eric Guerci and Alan Kirman*.

We investigate the role of cognitive hysterisis on individuals perception of (un)fairness. For that, we study phase transitions in the repeated ultimatum game. We run preliminary experiments to observe switching behavior of participants. The 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 examinination of brain activity would allow to investigate what sort of reasonning or emotional reaction is occuring in those who do not exhibit this simple pattern.

2014 **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 two conditions. The one is that individuals need to be ex ante homogenous in their access to opportunities and in their attitude toward risk. The second is that returns should not be purely stochastic and all actions or strategies should not generate the same average payoffs. Most of the results we obtain are consisting with Hanaki and al (2011). We also analyze two additional cases of the model, that are when the number of agent is higher than the number of opportunities, and when the number of opportunities is higher than the number of agents. 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

2014-2017 **Behvioral and Experimental economics**, *Université de Nice*, Lecturer, ungraduate students.

2015-2017 **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.

Organization Experience

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

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)