HDHIRI IBTISSAM

DOCTOR OF MATHEMATICS

ibti.hdhiri@gmail.com

EXPERIENCE

- 2014 to Present: Assistant Professor, Sciences College of Gabes – Gabès University (Tunisia)
- 2011-2014: Assistant Professor, Sciences College of girls, Abha – KKU University (Saudi Arabia)
- 2007-2011: Assistant Professor, Sciences College of Gabes
- 2006-2007: Assistant, Sciences College of Gabes
- 2004-2006: ATER, Maine University (France)
- 2002-2003: Tutoring in Mathematics, Maine University (France)

EDUCATION

- 2006: PhD Degree in Mathematics, University of Maine (France)
  Title: Backward stochastic differential equations and their applications
  Grade: Very Honorable
- 2002: Research Master Degree in Mathematics, University of Bordeaux I (France)
- 2001: Bachelor degree of Mathematics, University of Gabès (Tunisia)

ADMINISTRATIVE TASKS

- Head of Mathematics Department, Faculty of Sciences of Gabes
- Member of Technology Transfer Office of Gabes University
- Member of the center of pedagogic Innovation and training engineering of Gabes University
- Training manager at the Career and Skills Certification Center of Faculty of Sciences of Gabes
- Member of Master comity in the Faculty of sciences of Gabes
- Member of contract teachers recruitment committee in the Faculty of sciences of Gabes
- Mathematics department coordinator- Scientific college of girls-Abha
- Member of the Quality Committee- Scientific college of girls-Abha
- Member of the reqruitment Committee- Scientific college of girls-Abha

TEACHING

- **Master 2 of Mathematics:** Stochastic calculus (course + tutorials), Introduction to stochastic calculus (course + tutorials)
- **Master 1 of Mathematics:** Parametric Statistics (course + tutorials), Advanced Probability (course + tutorials), Project, Probability theory 2 (course + tutorials).
- **Third grade of Mathematics:** Probability and Statistics (course + tutorials), Measure theory (course + tutorials), Probability Theory (course + tutorials), Differential calculus (tutorials), Mathematical Statistics(course + tutorials), Methodology, Practical activity, Soft Skills.
- **Third grade of Mecanics:** Probability and Statistics (course + tutorials)
- **Second grade of Mathematics:** Probability(course + tutorials), Statistical Methods (course + tutorials), probability and Statistics (course + tutorials), Practical activity, Soft Skills.
- **Second grade of computer science :** Probability and Statistics (course + tutorials)
- **First grade of Mathematics:** Analysis (course + tutorials), Descriptive Statistics (course + tutorials), Discrete Probability (course + tutorials), Statistical simulation with R, Calculus (course + tutorials), General Mathematics (course + tutorials), Getting ready to success.
- **First grade of Geology:** Probability and Statistics.
- **First grade of economics:** Statistics (course + tutorials), Mathematics I.
- **Doctoral courses:** SPSS, Probabilistic tools for Statistics

CO-SUPERVISION OF PHD THESIS

- Double barrier reflected BSDEs and their Applications: Monia Karouf (2014)
- General Study of Stochastic Impulse Control Problems with Random Coefficients: Helmi Zaatra (2021)

SUPERVISION OF MASTER THESIS

- Meanfiels Backward Stochastic equations: Wided Ben Massoud (2020)
- Discretization of stochastic differential equations: Helmi Zaatra (2016)
- Optimal Stochastic control applied to Finance: Mohamed Alaya (2016)
- Backward Stochastic Differential Equations and Financial Mathematics: Mokhtar Alaya (2009)
- Stochastic impulse control problems: Achraf Khlifi (2009)

PUBLICATIONS

[1] I. Hdhiri : Zero-sum Switching Game Problem with Delay, submitted

[2] I. Hdhiri, H. Zaatra : Risk-Sensitive Impulse Control Problems with Jumps and Execution Delays, submitted

[3] B. Djehiche, S. Hamadene, I. Hdhiri, H. Zaatra : Infinite Horizon Stochastic Impulse Control with Delay and Random Coefficients, Mathematics of operations research (2021)

[4] I . Hdhiri and M. Karouf : Optimal stochastic impulse control with random coefficients and execution delay; Stochastics (2017)

[5] Hdhiri I. and M. Karouf : Risk Sensitive Impulse Control of non-Markovian Processes, MMOR (2011)

[6] B.Djehiche, S.Hamadène and I.Hdhiri : "Stochastic Impulse Control of Non-Markovian Processes", Applied Mathematics & Optimization (2009).

[7] S. Hamadène, I. Hdhiri : The stopping and starting problem in the model with jumps, PAMM (2007)

[8] S.Hamadène, I.Hdhiri: BSDEs with two reflecting barriers and quadratic growth coefficient without Mokobodski's condition. Applications, JAMSA (2006)

In Progress:

[9] Hdhiri I. : Infinite Stochastic Switching Game Problems with Delay

ORAL COMMUNICATIONS

International Conferences

- Switching game problem with delay, International Conference of Mathematics and Applications ICoMA Djerba (2023)
- Stochastic Imulse Control; Applied probability and statistics; Pasteur Institute of Tunis (2015)
- Risk Sensitive Impulse Control of non-Markovian Processes; Stochastic analysis and applied probability, Hammamet, Tunisia (2009)
- On the starting and stopping problem with Brownian and independent Poisson noise; ACSIOM Montpellier-France (2006)
- On the starting and stopping problem with jumps; Third conference on Probability and stochastic analysis, Marrakech -Morocco (2005)
- September 2004:Double barrier reflected BSDEs. Application to stochastic differential games, Journées MAS de SMAI, Nancy (France).

Local Conferences

- Impulse control problems with stochastic coefficients, FSG (2019)
- Equations différentielles stochastiques rétrogrades, Matinée Scientifique : Processus Stochastiques et applications, Monastir (2018)
- Stochastic Impulse control problems, Days of Scientific Research, Abha - Arabie Saudite (2012)
- Stochastic Impulse Control of Non-Markovian Processes; Journée des probabilités FSG (2009)
- Equations différentielles stochastiques rétrogrades, Journée de Mathématiques à la FSG(2008)
- Stochastic Impulse Control : The non-Markovian case; Troisième journée de probabilités et applications, Monastir (2008)
- The starting and stopping problem with Brownian and independent Poisson noise; Seminar of applied Analysis, Brest-France (2006)
- On the starting and stopping problem with jumps; laboratory of probability and statistics, Le Mans-France (2005)
- Double barrier reflected Backward stochastic differential equations, SéminaireBachelierm; Journée des doctorants, Paris - France (2005)
- BSDEs with two distinct reflecting barriers and quadratic growth generator; Colloque de troisième cycle, Bordeaux - France (2005)
- BSDEswithtwo distinct reflectingbarriers , Séminaire des thésards du ceremede, Paris - France (2005)
- BSDE with two distinct reflecting barriers; Forum of young researchers, Le Mans-France (2004).

INTERNATIONALORGANIZED CONFERENCES

- International conference of Mathematics and Applications ICoMA 2023
- International conference on stochastic analysis and app. probability SAAP2010
- International colloquium on stochastic and potential analysis URASCM 2007.

NATIONAL ORGANIZED CONFERENCES

- Cinquième journée de probabilités, FSG 2023
- Conference : The 30d anniversary of SMT 2022
- Mathematical open days, 2022
- Quatrième journée de probabilités, FSG 2015
- Troisième journée de probabilités, FSG 2015
- Deuxième journée des doctorants, FSG 2016
- Première journée des doctorants, FSG 2015
- Deuxième Journée des probabilités, FSG 2010
- Journée de probabilités, FSG 2009

CERTIFICATES

- Project Mangement Professional PMP
- Pedagogic engineering
- Entrepreneurship Trainer
- Digital Marketing Trainer
- Design Thinking Trainer
- BMC Trainer
- Social entrepreneurship Trainer
- Intellectual property
- Trainer : Empower your Education

COMPUTER SKILLS

R

SPSS

Latex

Python

Graphic design

Video edition

LANGUAGE SKILLS

Arabic

Frensh

English