

# Florian BENAVENT

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DATE OF BIRTH:	June 12th 1991	NATIONALITY:	French
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## WORK EXPERIENCE

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Oct 2015-2018	<p>PhD in computer science, Greyc Research Lab, Univ. of Caen Normandie <i>Integrate recommendation in autonomous digital system</i></p> <p>Create and integrate models of recommendation understandable for any user in an uncertain markov decision process. Analyze performances for each actual algorithm then propose an approximate alternative. Generalize uncertain MDPs to multi-users situations.</p>
Oct 2015-2018	<p>Teaching, University of Caen Normandie <i>Teaching missions during PhD</i></p> <p>Python, Project management (alone and with a team), Spreadsheet, Supervised annual project or internship.</p>
MAR-AUG 2015	<p>Internship: Greyc Research Lab, University of Caen Normandie Theoretical study on recommendation system inside a high-frequency trading system.</p>
SEP 2013-AUG 2014	<p>Internship: Greyc Research Lab, University of Caen Normandie Develop a library in Java for various common algorithm of A.I. Initially based on markov decision process and reinforcement learning then extended to other fields of A.I..</p>
MAY-AUG 2012	<p>Internship: HydrOcean, Nantes, France Contribute to developing a naval software suite on C++ with Qt and VTK libraries. Develop a naval tool to optimize on c#/net .</p>
SEP-DEC 2010	<p>Internship: Veolia Umweltservice Management Suisse SA Add new functionality on the open source software GLPI (IT Management) in php and mysql.</p>

## PUBLICATIONS

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FEB 2018	<p><a href="#">An Experimental Study of Advice in Sequential Decision-Making under Uncertainty</a> 32nd AAAI Conference on Artificial Intelligence, New Orleans, USA</p>
JUL 2016	<p><a href="#">Short article: Integrate basic recommendation in a MDP</a> (Original title: "Intégration de recommandations simples dans un MDP") 11th French days for planning, decision making and learning (JFPDA 2016) Grenoble, France</p>

## EDUCATION

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SEP 2015	Master in Computer Science, <b>University of Caen Normandie</b> , France Specialty Decision making and optimization, Promotion major
SEP 2014	Graduate Diploma in Information technology (Master Level), <b>Epitech</b> , Paris, France Professional Certification Level 1 (France) and Level 7 (Eu) registered with RNCP
2012-2013	Exchange year in Laval University, Québec, Canada

## LANGUAGES

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FRENCH: Mother tongue  
ENGLISH: Fluent (Toeic: 855 in 2014)

## COMPUTER SKILLS

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### Languages and Libraries

Advanced: Java, C++, C, QT  
Intermediate: C#, .net, Python, SQL, PHP, HTML, SFML, SDL  
Basic: Prolog, Ocaml, CSS, Autoit, Unity

### Algorithms

Advanced: Markov Decision process (MDP, POMDP, Dec-MDP, IRMDP...),  
Reinforcement Learning (QLearning, Monte-Carlo...)  
Intermediate: Metaheuristic (Genetic Algorithms, Simulated annealing...),  
Recommendation system, Graph of trust  
Basic: Constraint programming, Neural network

### Tools

Project management: CMake, Git, Svn, Mercurial  
Others: Latex, IDE (visual studio, eclipse...), ...

## REFERENCES

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Professor Bruno Zanuttini, Thesis director Oct 2015-2018  
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## INTERESTS

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- Automated planning and decision making.
- Autonomous and Semi-autonomous systems.
- Applications: Robotics, Aerospace, Medicine.
- Procedural generation