

**Dr. Pierre BERNARD**

Senior Computer Science Professor & AI Research Lead

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PROFESSIONAL PROFILE

Experienced Computer Science Professor with over 15 years in higher education and research. Specialist in Artificial Intelligence, Machine Learning, Software Engineering, and Database Systems. Recognized for innovative teaching methodologies and ability to inspire students in cutting-edge technology. Published researcher with expertise in Deep Learning, Natural Language Processing, and Computer Vision. Strong background in industry collaboration and practical application of theoretical concepts.

EDUCATION

Ph.D. in Computer Science - Pierre and Marie Curie University, Paris (2015)

Dissertation: 'Applications of Artificial Intelligence in Educational Technologies'

Advisors: Prof. Jean Dubois & Prof. Marie Leclerc

Master of Science in Computer Science - École Normale Supérieure de Lyon (2012)

Specialization: Machine Learning and Data Mining, GPA: 18.5/20

Bachelor of Science in Computer Science - Claude Bernard University Lyon 1 (2010)

Magna Cum Laude, Minor in Mathematics

PROFESSIONAL CERTIFICATIONS

- **Certified TensorFlow Developer** - Google (2023)
- **AWS Solutions Architect Professional** - Amazon Web Services (2022)
- **Microsoft Azure AI Engineer Associate** - Microsoft (2021)
- **Deep Learning Specialization** - Stanford University/Coursera (2020)
- **Kubernetes Certified Application Developer** - CNCF (2019)

PROFESSIONAL EXPERIENCE

Senior Professor of Computer Science - University of Technology Lyon (2018-Present)

- Teaching: Advanced Programming, AI/ML, Database Systems, Software Engineering (250h/year)
- Research: Machine Learning, Natural Language Processing, Computer Vision
- Supervision: 25+ Master's and PhD students in AI and Software Engineering
- Leadership: Head of Computer Science Department (2021-Present)

- **Industry Partnerships:** Collaborated with Google, Microsoft, and IBM on AI research projects

Associate Professor - University Paris-Saclay (2015-2018)

- **Courses:** Algorithms, Data Structures, Software Engineering, Web Development
- **Development:** Created new Data Science and Machine Learning curriculum
- **Innovation:** Implemented project-based learning with industry partners
- **Research:** Published 15+ papers in top-tier conferences (ICML, NeurIPS, AAAI)

Software Engineer - Tech Solutions Inc., Paris (2012-2015)

- **Full-stack development** using Python, Java, JavaScript, and cloud technologies
- **Led development** of AI-powered recommendation systems serving 1M+ users
- **DevOps:** Implemented CI/CD pipelines, containerization, and cloud deployment

TECHNICAL SKILLS

Programming Languages:	Python, Java, C++, JavaScript, TypeScript, Go, Rust, R, MATLAB
AI/ML Frameworks:	TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, Hugging Face
Web Technologies:	React, Node.js, Django, Flask, HTML5, CSS3, REST APIs, GraphQL
Databases:	PostgreSQL, MongoDB, Redis, Elasticsearch, Neo4j, Apache Cassandra
Cloud Platforms:	AWS, Google Cloud, Microsoft Azure, Docker, Kubernetes
DevOps Tools:	Git, Jenkins, GitHub Actions, Terraform, Ansible, Prometheus
Specialized Areas:	Natural Language Processing, Computer Vision, Deep Learning, MLOps

RESEARCH & PUBLICATIONS

Selected Publications (h-index: 28, 1500+ citations):

- Bernard, P. et al. 'Deep Learning for Educational Content Recommendation' - ICML 2023
- Bernard, P. 'Transformer-based Models for Code Generation' - NeurIPS 2022
- Bernard, P. et al. 'Federated Learning in Educational Systems' - AAAI 2021
- Bernard, P. 'Adaptive AI Tutoring Systems' - Nature Machine Intelligence 2020

Research Grants:

- EU Horizon 2020: AI for Education (€2.5M, Principal Investigator, 2020-2024)
- French National Research Agency: Adaptive Learning Systems (€800K, 2019-2022)

HONORS & ACHIEVEMENTS

- **Excellence in Teaching Award** - University of Lyon (2022, 2023)
- **Outstanding Research Award** - French Computer Science Society (2021)
- **Best Paper Award** - International Conference on AI in Education (2020)
- **Featured Speaker** - International AI Conference, MIT (2021, 2023)
- **Editorial Board Member** - Journal of AI in Education (2019-Present)
- **Program Committee** - NeurIPS, ICML, AAAI (2018-Present)

NOTABLE PROJECTS

AI-Powered Code Assistant - Open Source Project (2023-Present)

- Developed an intelligent code completion system using transformer models
- 10,000+ GitHub stars, integrated into VS Code extension with 50K+ downloads

EduAI Platform - Educational Technology Startup (2022-Present)

- Co-founded startup developing AI-powered personalized learning platforms
- Secured €1.2M in Series A funding, serving 100+ educational institutions

MLOps Pipeline Framework - Industry Collaboration (2021-2022)

- Built enterprise-grade MLOps platform for automated model deployment
- Deployed across 5 Fortune 500 companies, handling 1M+ daily predictions

PROFESSIONAL ACTIVITIES

- **IEEE Senior Member** - Institute of Electrical and Electronics Engineers
- **ACM Distinguished Scientist** - Association for Computing Machinery
- **Reviewer** - Nature, Science, PNAS, JMLR, TPAMI (100+ papers reviewed)
- **Conference Chair** - European Conference on AI in Education (2024)
- **Industry Advisory Board** - Google AI Education Initiative
- **Technical Consultant** - UNESCO AI in Education Global Report