Pierre Amenoagbadji

Office 2214 - ENSTA Paris
828 Boulevard des Maréchaux, 91120 Palaiseau FR

✉ pierre.amenoagbadji@ensta-paris.fr

Education

POEMS (UMR CNRS - INRIA - ENSTA Paris - IPP)   *Palaiseau, FR*
PhD in Applied Mathematics   *2020 - 2023*
- **Title of thesis** — *Wave propagation in quasiperiodic media*
- **Supervisors** — *Sonia Fliss, Patrick Joly*

Université Paris-Saclay   *Palaiseau, FR*
Master in Analysis, Modeling, and Simulation   *2019 - 2020*
- **Main topics** — *Partial Differential Equations, Numerical Analysis, and High Performance Calculus*

ENSTA Paris – Ecole Nationale Supérieure des Techniques Avancées   *Palaiseau, FR*
Engineering degree   *2017 - 2020*
- **Specialization** — *Applied Mathematics*

César Baggio highschool   *Lille, FR*
Preparatory classes   *2015 - 2017*
- Two-year undergraduate intensive courses in Mathematics and Physics, to prepare for nationwide competitve examinations
- **Specialization** — *Physics and Engineering*

02 Février highschool   *Lomé, TG*
Highschool   *2011 - 2014*
- Science Baccalaureate with mention "Good"
- **Specialization** — *Mathematics and Physics*

Research Internships

POEMS (UMR CNRS - UMA - ENSTA Paris - IPP)   *Palaiseau, FR*
Research Intern   *March 2020 - Sept. 2020*
- Internship titled *Wave propagation in quasiperiodic media*, under the supervision of Sonia Fliss and Patrick Joly
- Numerical study of the truncation effects related to cell problems with quasiperiodic coefficients in the homogenization setting
- Numerical method for solving a 1D Helmholtz equation with quasiperiodic coefficients

Karlsruhe Institute of Technology   *Karlsruhe, DE*
Research Intern   *May. 2019 - Aug. 2019*
- Extension of the Matlab library BIEPack for solving boundary integral equations; supervised by Tilo Arens
- Support for higher order Galerkin and collocation methods

Resrarch activity

Preprint

Wave propagation in one-dimensional quasiperiodic media   *Submitted*
Pierre Amenoagbadji, Sonia Fliss, Patrick Joly   *2022*

Past and upcoming oral communications

Workshop on Computational Methods for Multiple Scattering   *Cambridge, UK*
Isaac Newton Institute   *April 2023*

Séminaire EDP Nancy   *Nancy, FR*
Institut Élie-Cartan de Lorraine   *December 2022*

Rencontre JCJC Ondes   *Nice, FR*
Inria Université Côte d'Azur   *November 2022*

Aspect'22 – Asymptotic Analysis & Spectral Theory
Oldenbug, DE
OLDENBURG UNIVERSITY
September 2022

WAVES 2022
Palaiseau, FR
POEMS
July 2022

45e Congrès National d'Analyse Numérique
Evian-les-Bains, FR
SMAI
June 2022

AQW2022 – The Arctic Quasiperiodic Workshop
Luleå, SE (Online)
June 2022

Conference on Mathematics of Wave Phenomena
Karlsruhe, DE (Online)
KARLSRUHE INSTITUTE OF TECHNOLOGY
February 2022

Congrès des Jeunes Chercheuses et Chercheurs en Mathématiques Appliquées 2021
Palaiseau, FR
ECOLE POLYTECHNIQUE
October 2021

10e Biennale Française des Mathématiques Appliquées et Industrielles
Grande-Motte, FR
SMAI
June 2021

Teaching activity

French and Mathematics Tutoring under the ZUPdeCO Program
Massy, FR
VOLUNTEER AT BLAISE PASCAL SECONDARY SCHOOL
Oct 2017 - June 2018

Weekly sessions with groups of 3-5 pupils from disadvantaged secondary schools

MA103 – Introduction to PDEs and their Discretization by Finite Differences
Palaiseau, FR
TEACHING ASSISTANT AT ENSTA PARIS
Spring 2021 and 2022

15-hour course for 1st year engineering (3rd year BSc.) students

ANN201 – Introduction to the Finite Element Method
Palaiseau, FR
TEACHING ASSISTANT AT ENSTA PARIS
Fall 2021 and 2022

14-hour course for 2st year engineering (1st year MSc.) students

Organization / Administrative responsibilities

POEMS Seminar
Palaiseau, FR
MEMBER OF THE ORGANIZATION COMMITTEE
Since March 2022

Fondation Mathématique Jacques Hadamard Buddy Programme
Orsay, FR
MENTORING OF TWO FOREIGN MSc. STUDENTS OF UNIVERSITÉ PARIS SACLAY
September 2021 - April 2022

Research Council of ENSTA Paris
Palaiseau, FR
REPRESENTATIVE OF PhD STUDENTS
April 2021 - April 2022

Skills

Programming languages/softwares
- **Frequently used** — *C/C++, Matlab, XLiFE++, Office pack, Latex*
- **Notions** — *Python, Pascal, R*

Spoken and Written languages
- **Mother tongues** — *French, Ewé*
- **Fluent** — *English (TOEIC score 990/990 in 2019)*
- **Notions** — *Spanish*