

Cristian E. Jiménez Durango

ERASMS Mundus Photonics Master holder



About me

As a researcher, I have come to the conclusion that my personal development will be dictated by new knowledge and experiences. My dream is to find contemporary problem-solving challenges everywhere, mainly focused on the development of all-fiber devices. I am currently developing my research activities under the supervision of Sébastien Février in XLIM's photonics fiber department.

personal

Cristian E. Jiménez Durango
nationality: Colombian
25/10/1994

Areas of specialization

Photonics/Optics • Numerical modelling • Fiber lasers
• Information management

Personal qualities

Critical thinking
Open mindedness
Integrity
Empathy
Communication

Interests

Films/movies
Music discovery
Cultural events (Opera, theater, Ballet, Concerts...)
Scientific Visualization
3D printing
Blender
Astronomy
Science Philosophy
Video games development

SHORT RESUMÉ

2018–2021

Young researcher at the ITM

MEDELLIN · Colombia 📍

Research support to the project "modal multiplexer based on optical fibers with few modes for applications in optical communications". Approved in the 2016 ITM convocation. Group: Automatic, Electronics and Computer Science (AEyCC) Advisor: Nelson Alonso Correa Rojas.



DEGREES

2022-2025

Science Doctor

SCIENCES INFORMATION PHD
· Limoges University 🏛️



matlab



LaTeX



2019 - 2021

Photonics Master

ERASMUS MUNDUS MASTER DEGREE · Limoges, Brescia and The Basque country universities 🏛️



python



COMSOL



Blender



2013 - 2018

Telecommunications engineer

B.A. · ITM Medellín 🏛️



CURRICULUM

2018–2021

Master thesis

XLIM · Limoges 📍

Coherent Supercontinuum generation at the Mid-infrared with Micro-structured optical fibers.

2013–2018

B.A Thesis

ITM · Medellín 📍

Design of low-loss and highly birefringent porous-core photonic crystal fiber and its application to terahertz polarization beam splitter

CERTIFICATES & GRANTS

2013 - 2018

Sapiencia Grant

2019 - 2021

Erasmus mundus

2022 - 2025

CDH France

LANGUAGES

Spanish

C2

mother tongue

English

C1

● ● ● ●

French

B1

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PUBLICATIONS

2023

GaAs-chip-based mid-infrared supercontinuum generation

2022

Two-octave mid-infrared supercontinuum pumped by a 4.5 μm femtosecond fiber source

TALKS

Dec. 2022

MW-Class Femtosecond Er-Doped Tapered Fiber Amplifier, at: *Advanced Solid State Lasers* in Barcelona Spain, Dec. 2022.