Ph.D., M.Sc.

CAMILO GARCIA-TENORIO

Dr. of Engineering Sciences / Mechanical and Mechatronic Eng.

FACTS

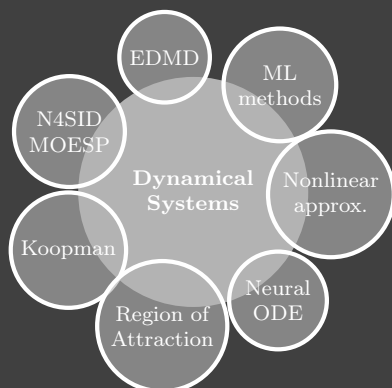### Areas of specialization

Control Systems ● Data-Driven Control
Machine-Learning Identification
Subsystem Methods ● Digital-Twins
Industry 4.0 ● Matlab

SKILLS

Languages

Spanish	C2	mother tongue
English	C2	●●●●○
French	A2	●○○○○

Interests

- EDMD
- ML methods
- N4SID MOESP
- Nonlinear approx.
- **Dynamical Systems**
- Koopman
- Neural ODE
- Region of Attraction

OS: 🐧   🍎   ⊞

IT & programming

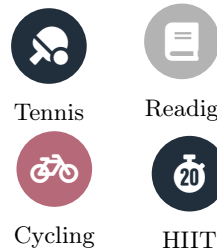|	
LaTeX	▬▬▬▬
MATLAB	▬▬▬▬
Arch linux	▬▬▬
python	▬▬▬
Julia	▬

SHORT RESUMÉ

2020–2023 · **Post-Doctoral Researcher**
RESEARCHER · Université de Mons 📍
Data-driven (Machine Learning) model and control of Industrial lime production. Python and Matlab algorithm based on EDMD.

2015–2021 · **Ph.D. Candidate**
RESEARCHER · Cotutelle - Umons-Belgium/Unal-Colombia 📍
Extended dynamic mode decomposition ● Koopman operator ● Regions of attraction ● Nonlinear models ● Model predictive control.

2010–2015 · **Lecturer, Automation Salesman, Teaching Assistant, Project Manager**
VARIOUS POSITIONS · Colombia 📍
Control systems lectures ● Quote and sell automation solutions ● Laboratory and complimentary lectures ● Automate banking solutions ● Manage post-sales activities.

DEGREES

2021 · **Philosophical Doctor in Engineering Science**
PH.D. · Umons/Unal · Bel/Col 🏛

2014 · **Master of science in Electronic Engineering**
M.SC. · Los Andes · Colombia 🏛

2010 · **Electronic Engineer**
B.S. · Los Andes · Colombi 🏛

HOBBIES

🏓 Tennis   📄 Readig

🚴 Cycling   ⏱ HIIT

CERTIFICATES & GRANTS

2021 Artificial Intelligence
2014 Sales Management
2010 Project Management

STRENGHTS

focused · autonomous · resilient
adaptable · communication

REFERENCES

Prof. Alain Vande Wouwer ✉
Prof. Eduardo Mojica ✉
Prof. Alexandre Mauroy ✉

PUBLICATIONS

2023 *Evaluation of the Regions of Attraction of Higher-Dimensional Hyperbolic Systems Using Extended Dynamic Mode Decomposition*·Automation(4(1)p.57–77).

2022 *A Matlab Toolbox for Extended Dynamic Mode composition Based on Orthogonal Polynomials and pq Quasi-Norm Order Reduction*·Mathenatics(10(20)p.3859).

TALKS

May. 2023 "Development of Accurate and Tractable Edmd Approximations for Analysis and Control", at: *SIAM-DS* in Portland, Oregon.

Camilo Garcia Tenorio ✉ 💼 🐙 📞 +32/0495 878258