Christos **Chronopoulos**

CIVIL ENGINEER · ENVIRONMENTAL ENGINEERING, CONSTRUCTION SAFETY

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Experience

Brinckmann Group
Aarhus, Denmark

RESEARCH ANALYST
Oct. 2022 - Present

- Global onshore and offshore wind supply chain,market and technology research
- Development of research databases (Excel) strategically covering key value chain segments and enhancing data-driven insights
- Consulting engagement and support by leveraging knowledge and in-depth analysis of the wind supply chain
- Programming in Python, VBA and use of AI tools to streamline research and analysis, reduce manual workload, and improve efficiency

Aarhus University, Civil and Architectural Engineering
Aarhus, Denmark

RESEARCH FELLOW
Feb. 2021 - May 2022

- Analysis and prediction of hazards in railway infrastructure construction with Machine Learning, integration of BIM and Digital Twins
- Python programming and Machine Learning, data processing and data analysis
- Authorship of peer-reviewed research papers and technical reports. Peer-reviewer of journal and conference articles (ECAM, EG-ICE)
- Teaching of Advanced Technologies in Construction (Learning Factory for Construction, Robotics and Automation)
- Co-supervision of MSc student projects within Robotics and Automation

DTU Management Engineering
Copenhagen, Denmark

RESEARCH ASSISTANT
Jan. 2019 - Dec. 2019

- Safety and smartness of industrial Cyber-Physical Systems (CPSs), Deep Causal Analysis, FMEA, OECD Halden Reactor Project
- Authorship of peer-reviewed research papers and project proposals
- Project management, conference planning, website development and maintenance, graphics design

DTU Skylab
Copenhagen, Denmark

STUDENT JOB
Jan. 2018 - Dec. 2018

- Event planning and coordination
- Rapid prototyping and IoT (3D printing and electronics) mentoring in Hackathons and supervision of student projects
- Technical support, Faults reporting, Procurement

Education

Technical University of Denmark (DTU)
Copenhagen, Denmark

M.SC. IN ENVIRONMENTAL ENGINEERING [8.3/12.00]
Sep. 2016 - Jun. 2018

National Technical University of Athens (NTUA) and University of Piraeus
Athens, Greece

M.SC. IN ENERGY AND ENVIRONMENTAL PROTECTION SYSTEMS MANAGEMENT [8.67/10.00]
Sep. 2011 - Dec. 2013

School of Pedagogical and Technological Education
Athens, Greece

B.SC. IN CIVIL ENGINEERING [8.16/10.00]
Sep. 2006 - Sep. 2011

Publications

Latest publications in peer-reviewed Journals and Conference Proceedings

0000-0003-3558-4512

- C. Chronopoulos, J. Teizer, L. Esterle, (2022). Trajectory Prediction: A Review of Methods and Challenges in Construction Safety, *29th International Workshop on Intelligent Computing in Engineering (EG-ICE)*. DOI: 10.7146/aul.455.c233
- J. Teizer, C. Chronopoulos, (2022). Learning Factory for Construction to Provide Future Engineering Skills beyond Technical Education and Training, *Construction Research Congress 2022*. DOI: 10.1061/9780784483985.023
- C. Chronopoulos et al., (2021). Towards a Holistic, Self-organised Safety Framework for Construction, *2021 IEEE International Conference on Autonomic Computing and Self-Organizing Systems Companion (ACSOS-C)*. DOI: 10.1109/ACSOS-C52956.2021.00060

Honors & Awards

2013	**Top 3% graduate, MSc in Energy and Environmental Protection Systems Management**, NTUA	*Athens, Greece*
2012	**Scholarship (€2500) for excellent academic performance for the MSc in Energy and Environmental Protection Systems Management**, NTUA	*Athens, Greece*
2010	**Top 2% graduate, BSc in Civil Engineering**, BSc	*Athens, Greece*

Languages

GREEK	**Mother tongue**,	
ENGLISH	**C2 Proficiency level**, IELTS Academic (Band 8.00/9.00)	
FRENCH	**B2 level**, DELF I	
DANISH	**Elementary level**, Modul I	

Skills

Engineering, Programming and Design *Worldwide*

RESEARCH ANALYST, ENGINEER, MAKER

- **Wind Research:** Global onshore and offshore wind supply chain, market and technology research
- **Data Analysis:** Excel, Python (e.g., Pandas, NumPy), KNIME Platform
- **Programming:** Python, Visual Basic for Applications (VBA), R, HTML, Javascript
- **Engineering:** Life Cycle Assessment (SimaPro, RETScreen, CES EduPack), GIS (ArcGIS, MapInfo), Hydrology (DHI MIKE-SHE)
- **2D and 3D Design:** Revit, AutoCAD, Inventor, Blender, CorelDraw

Interests

Sports and Leisure *Aarhus, Denmark*

ACTIVITIES *Present*

- Swimming, Cycling, Running

Volunteering *Athens, Greece*

TEAM LEADER, GREEK SCOUTS ASSOCIATION *2006 - 2012*

- Team leading, project management and coordination, procurement. Design and implementation of educational programs
- Member of the International Affairs work-group, member of the National Youth Council (ESYN). Member of the Greek Delegation to the European Youth Event 2007 in Lisbon, under the auspices of the Portuguese presidency of the European Council.