

PERSONAL INFORMATION

Alessandro Ceci

 XXX XXX  XXX XXX XXX

Sex XXX | Date of birth XX/XX/XXXXX | Nationality XXX

APPLYING FOR
POSITION

Supporto tecnico ad attività di sviluppo di codici di calcolo per lo studio di flussi supersonici in geometrie complesse, ICE 68/2025

WORK EXPERIENCE

15/05/2025 – to date.**Postdoctoral fellow at the Gran Sasso Science Institute, Mathematics, Italy**

Study of heat transfer by forced convection over rough walls in fluids with variable properties using Direct Numerical Simulation

Host: Prof. Davide Modesti

25/01/2024 - 14/05/2025.**Postdoctoral fellow at Sapienza University of Rome, Italy**

"BUMP - Boundary layer Unsteadiness Mitigation through wall surface Perturbations in shock/turbulence interactions", development and validation of advanced numerical methods for the prediction of compressible wall-bounded turbulent flows in the presence of control devices. Extension of research activities linked to the PhD

Host: Prof. Sergio Pirozzoli

01/01/2021 – 24/01/2024.**PhD in Aeronautical and Space Engineering at Sapienza University of Rome, Italy**

Early-Stage Researcher (ESR13) within MSCA ITN project "TEAMAero - Towards Effective Flow Control and Mitigation of Shock Effects In Aeronautical Applications". PhD Topic & Thesis: "Development of numerical tools for high-fidelity simulation of shock/boundary layer interactions".

Supervisor: Prof. Sergio Pirozzoli

20/08/2018 - 31/12/2020.**Aerodynamicist at Sauber Motorsport, Hinwil, Switzerland**

Management of the automated workflow for the simulation of a Formula1 car at all attitudes, meshing, correlation activities between CFD and Wind-Tunnel/Track, HPC code optimization, RANS modelling

Group Leader: Dr. Luca Gasparini; Team Leader: Dr. Riccardo Baudille

27/01/2018 - 19/08/2018.**Junior CFD Methodology Engineer at Scuderia Toro Rosso, Faenza, Italy**

Management of the automated workflow for the simulation of a Formula1 car at all attitudes, meshing, correlation activities between CFD and Wind-Tunnel/Track, HPC code optimization, RANS modelling

Team Leader: Dr. Matteo Lombardi

28/08/2017 - 26/01/2018.**CFD Intern at Scuderia Toro Rosso, Faenza, Italy**

Meshing, correlation activities between CFD and Wind-Tunnel/Track, HPC code optimization

Team Leader: Dr. Matteo Lombardi

EDUCATION AND TRAINING

24/01/2024 - Doctorate degree in Aeronautical Engineering at Sapienza University of Rome. Development of numerical tools for high-fidelity simulation of shock/boundary layer interactions, "Ottimo"

03/10/2017 - Master of Science degree in Aeronautical Engineering – Aerodynamic track. Politecnico di Milano. Italy. Erasmus Double Degree Program. 110/110 cum laude.

08/09/2017 - Master of Science degree in Vehicle Engineering. KTH Royal Institute of Technology. Sweden. Erasmus Double Degree Program.

30/09/2014 - Bachelor of Science degree in Aerospace Engineering. Politecnico di Milano. Italy. 110/110

01/04/2025 – 31/05/2025 Lecturer for the course Introduction to High-Performance Computing, PhD course, Sapienza University of Rome (Rome)

20/05/2024 – 21/06/2024 Lecturer for the course Fluid Mechanics, Summer I, B.Sc. in Engineering, John Cabot University (Rome)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
	Toefl ibt 96				
Swedish	B2	B2	B2	B2	B2
	Swedish B2 for Engineers (KTH)				
German	A1	A1	A1	A1	A1
	Liceo Scientifico Giulianova M. Curie Bilingue				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ Good communication skills gained throughout my working and research experience

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Software & Programming skills: Fortran, C++, Python, Matlab, CUDA, HIP, Intel OneAPI - MPI, OpenMP, OpenACC - Latex, Tecplot, Paraview – OpenFOAM, Ansys Fluent

Driving licence B

ADDITIONAL INFORMATION

- Publications Author of 18 indexed publications in peer-reviewed journals
<https://www.scopus.com/authid/detail.uri?authorId=57203655794>
- Presentations
- Projects Contribution to 13 worldwide conferences (e.g. APS DFD, EFDC, AIAA SCITECH, ECCOMAS, AIMETA)
- Conferences
- Seminars
- Honours and awards ESR 13 – Marie Curie PhD fellow in ITN TEAMAero Horizon 2020
- Memberships
- References Add SapiExcellence 2024 Postdoctoral Fellowship, project “Boundary layer Unsteadiness Mitigation through wall surface Perturbations in shock/turbulence interactions – BUMP”, 50k €, Sapienza University of Rome
- Citations
- Courses
- Certifications Award winner of the American Physical Society (APS) Division of fluid dynamics (DFD) 2021 Gallery of Fluid Motion with the entry ‘Direct numerical simulations of turbulent pipe flow at high Reynolds number’, <https://doi.org/10.1103/PhysRevFluids.7.110510>
- Referee activities for: Journal of Fluid Mechanics, Computers and Fluids, Physical Review Fluids, AIAA Journal, Journal of Computational Physics, Theoretical and Computational Fluid Mechanics, International Journal of Heat and Fluid flow, Journal of Fluids Engineering
- Personal Data I authorize the processing of my personal data pursuant to Legislative Decree No. 196 of June 30, 2003, "Codice in materia di protezione dei dati personali".

Il sottoscritto dichiara di essere consapevole che il presente curriculum vitae sarà pubblicato sul sito istituzionale dell’Ateneo, nella Sezione “Amministrazione trasparente”, nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data e Luogo, XX/XX/XXXX XXXXX

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