



Chiroșcă Ana-Maria

Date of birth: 15/09/1994 | **Nationality:** Romanian | **Gender:** Female |

Email address: ana.chirosca@ugal.ro | **Address:** Galați, Romania (Home)

ABOUT ME

Scopus: [Scopus preview - Chiroasca, Ana Maria - Author details - Scopus](#)

Google Scholar: [Ana Maria Chiroasca - Google Academic](#)

Web of Science: [Web of Science](#)

Research Gate: [Ana Maria Chiroșcă \(researchgate.net\)](#)

WORK EXPERIENCE

2020 – CURRENT Galati, Romania

ASS. PROF. DR. ENG. "DUNĂREA DE JOS" UNIVERSITY OF GALATI

I supported the laboratory and project classes for the following disciplines, within the Mechanical Engineering department:

- Mechanics
- Machine parts
- Mechanisms and Parts of machines
- Dynamics of mechanical structures
- Strength of materials 1 and 2
- Modeling, simulation in the dynamics of mechanical systems

01/08/2018 – CURRENT Galati, Romania

ENGINEER ICEPRONAV ENGINEERING SRL

- Computational Fluid Dynamics (CFD), Hydrodynamics
- Ship Power and Speed Prediction
- Lines Plan and Lines Plan Optimisation with CFD Methods
- Training ShipFlow - september 2018, Gothenburg, Sweden
- Training on AVEVA Marine (Lines, Surface, Hydrostatics & Hydrodynamics)

10/10/2017 – 01/08/2018 Galati, Romania

STRUCTURE ENGINEER NAVYK DESIGN & ENGINEERING

Structural design of yachts and small boats:

- 3D surface and solid modelling
- Plate expansion
- Construction drawings (Detail and General Construction)
- Assembly drawings (Bending and forming Report)
- CNC nested plates drawings

08/05/2017 – 08/06/2017 Galati, Romania

PRACTICE IZOMARINE

Collaboration with Izomarine on:

- Materials list
- Isometric drawings

20/06/2016 – 08/07/2016 Galati, Romania

PRACTICE BUREAU VERITAS ROMANIA CONTROLE INTERNATIONAL

- Midship Section
- 3D Modeling

01/08/2015 – 17/08/2015

PRACTICE PRACTICE AT S.C. MARITIME INTERIOR S.R.L GALATI;

Training program - **POSDRU/189/2.1/G/156695** program " Supporting students' transition to the labor market through innovative internships in South-Eastern Europe"

- Rules for ship interior design
- Ship interior design technologies
- Analysis using FEM (FEMAP) for the case of bar elements

08/06/2015 – 22/06/2015 Galati, Romania

PRACTICE S.C. DAMEN S.R.L GALATI.

- Technological flow in the naval locksmith section

● **EDUCATION AND TRAINING**

2019 – 2023 Galati, Romania

PHD DEGREE PhD's Degree in Mechanical Engineering - "Dunarea de Jos" University of Galati

Thesis Studies related to the ship behaviour in the European seas

2017 – 2019 Galati, Romania

MSC. DEGREE Master Naval Architecture - „Dunărea de Jos” University of Galați, Faculty of Naval Architecture

Thesis Numerical Simulation of the Free Surface Viscous Flow around a Bare Hull Model, Final grade:10

2013 – 2017

BSC. DEGREE Naval Architecture - „Dunărea de Jos” University of Galați, Faculty of Naval Architecture

- Descriptive Geometry and Technical Drawing
- Ship Theory
- Fluid Mechanics Strength of Materials
- Numerical Methods
- Resistance tests on an experimental model in the towing tank

Thesis Preliminary design of a competition sailboat with a length of 12.8 m, Final grade:10

18/08/2013 – 16/09/2013

ACCOUNTANT Romanian Business School Foundation of Galați Occupation: Accountant

- Property Transactions Reliance
- Carrying out specific calculations

2009 – 2013

HIGH SCHOOL „Al. I. Cuza” National College of Galați Specialization: Mathematics – IT, Intensive IT

- Computer Science
- Mathematics
- Physics

Completed Courses

- Award of Course Completion ORACLE Academy , Database Design and Programming with SQL
- ECDL Certificate (Complete) - European Computer Driving Professional Skills Certificate - Skills Acquired Making of software design and structure needed for implementing of software systems, software applications and database; web pages, customization, configuration and modifying software applications
- CISCO Certificate of Course Completion
- IT Essentials: PC Hardware and Software

● COURSES

Courses

- Project Manager
- Human Resources
- FINE™/Marine advanced training, Galati, Romania October 22 to 24, 2019
- Shipflow training, FlowTech Gothenburg, Sweden, 2018

● LANGUAGE SKILLS


Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Shipflow | NUMECA | ANSYS Workbench | Ansys FLUENT | Shipconstructor | Rhinoceros 3D |  High ability to use AutoCAD | Aveva Marine | Programming: C, C++, JAVA (J2EE) | Microsoft Office: Word, Excel, Access, Power Point, Outlook.

● PUBLICATIONS

Papers published in ISI listed journals

1. **Chiroșcă, Ana-Maria**, Antonio Medina, Florin Pacuraru, Simone Saettone, Liliana Rusu, and Sandita Pacuraru. 2023. "Experimental and Numerical Investigation of the Added Resistance in Regular Head Waves for the DTC Hull" Journal of Marine Science and Engineering 11, no. 4: 852. <https://doi.org/10.3390/jmse11040852>
2. **Chiroșcă Ana-Maria**, Rusu Liliana, Bleoju Anca, 2022. Study on wind farms in the North Sea area, Energy Reports, Volume 8, Supplement 16, Pages 162-168, ISSN 2352-4847, <https://doi.org/10.1016/j.egy.2022.10.244>, Impact factor 4,937
3. **Chiroșcă Ana-Maria**, Rusu Liliana, 2022. Characteristics of the wind and wave climate along the European seas focusing on the main maritime routes, Journal of Marine Science and Engineering, Impact factor 2,458, 1. 10(1), 75. <https://doi.org/10.3390/jmse10010075> Impact factor 2,574, Q1
4. **Chiroșcă Ana-Maria**, Rusu Liliana, 2021. Comparison Between Model Test and Three CFD Studies for a Benchmark Container Ship, Journal of Marine Science and Engineering, 9 (1), 62. <https://doi.org/10.3390/jmse9010062> Impact factor 2,574, Q1.

Papers published in ISI Proceedings

1. Obreja C.D., **Chiroșcă Ana Maria**, 2018. Theoretical and experimental comparative analyse on the hydrodynamic resistance of a racing sailboat, Proceeding 6th International Conference on Modern Technologies in Industrial Engineering (ModTech2018), IOP Conference Series: Materials Science and Engineering, Volume 400, Article Number 042044. <https://doi.org/10.1088/1757-899X/400/4/042044>

Papers published in BDI Journals

1. **Chiroșcă Ana-Maria**, Rusu Liliana, The Characteristics of the North Sea and its Importance for Maritime Transport, AUDOE, Vol. 17, No. 6/2021, pp. 224-229, ISSN: 2065-0175, <https://dj.univdanubius.ro/index.php/AUDOE/article/view/1481>
2. **Chiroșcă Ana-Maria**, Rusu Liliana, The Use of CFD Methods in the Shipbuilding Industry and their Benefits, AUDOE, Vol. 17, No. 6/2021, pp. 262-269, ISSN: 2065-0175, <https://dj.univ-danubius.ro/index.php/AUDOE/article/view/1484>

3. **Chiroșcă Ana-Maria**, Rusu Liliana, Statistical and Economic Analysis of the Rhine-Main-Danube Canal, the Bridge Between the North Sea and the Black Sea, Journal of Danubian Studies and Research, Vol. 11, No. 1/2021, pp. 184-191, ISSN 2284-5224, <https://dj.univ-danubius.ro/index.php/JDSR/article/view/1288/1491>
4. **Chiroșcă Ana-Maria**, Rusu Liliana, Study on Navigation Conditions and Shipping Traffic on the Danube in the Period 2010-2020, Journal of Danubian Studies and Research, Vol. 11, No. 1/2021, pp. 192-201, ISSN 2284-5224, <https://dj.univ-danubius.ro/index.php/JDSR/article/view/1301/1490>
5. **Chiroșcă Ana-Maria**, Rusu Liliana, 2019. Marine Traffic on Mediterranean Seas and its divisions, Mechanical Testing and Diagnosis, Volume 4, pp. 11-18, ISSN 2247 – 9635, 2019 (IX) <https://doi.org/10.35219/mtd.2019.4.02>
6. Gasparotti Carmen, **Chiroșcă Ana Maria**, 2018, Heinnovate Self-Assement – The first step in identifying the entrepreneurial and innovation aspects in a higher education institution. Case Study”, Revista de Management și Inginerie Economică, Vol. 7, No. 3 (69), p. 479. <http://www.rmee.org/69engleza.htm>
7. Obreja C.D., **Chiroșcă Ana Maria**, 2015. Preliminary Estimation of Ship Weight, The Annals "Dunarea de Jos" University of Galati Fascicle XI - SHIPBUILDING, Vol. 38, pp. 115-118. <https://www.gup.ugal.ro/ugaljournals/index.php/fanship/article/view/1393>

Papers published in the volumes of international conferences

1. **Chiroșcă Ana-Maria**, Rusu Liliana, 2022. Study of climate changes and their impact on maritime transport in the Black Sea area, Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022, Volume 22, Issue 3.1. <https://doi.org/10.5593/sgem2022/3.1/s12.22>
2. **Chiroșcă Ana-Maria**, Rusu Liliana, 2021. The Economic Importance of Navigation Along The Danube-Black Sea Channel, presented at XXIth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, 14 -22 August, Albena, Bulgaria (proceeding in print) <https://www.sgem.org/>
3. **Chiroșcă Ana-Maria**, Rusu Liliana, Păcuraru Florin, 2021. Study on the behavior of benchmark container ships in regular waves, International Conference: Modern Technologies in Industrial Engineering IX (ModTech 2021), June 23-26, Eforie Nord, România, Vol. 1182. <https://doi.org/10.1088/1757-899X/1182/1/012013>, <https://iopscience.iop.org/article/10.1088/1757-899X/1182/1/012013/meta>
4. **Chiroșcă Ana-Maria**, Rusu Liliana, 2020. Statistical analysis of the types of ships that have crossed the European ports in the last decade. 20th SGEM International Scientific Conferences on Earth & Planetary Sciences, Extended Scientific Sessions „GREEN SCIENCE FOR GREEN LIFE” SGEM Vienna GREEN 8-11 December 2020, Vol. 20, 249-256, ISBN 978-619-7603-17-0. <https://doi.org/10.5593/sgem2020V/1.3/s02.31> (Scopus indexed)
5. **Chiroșcă Ana-Maria**, Gasparotti Carmen, 2020. Comparison between model test and numerical simulations for a container ship, Proceeding of the 5th International Conference on Maritime Technology and Engineering (Martech2020), Volum Developments in Maritime Technology and Engineering, Editor Francis & Taylor Group, UK, 16-19 November, Lisbon, Portugal, eBook ISBN9781003216599 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003216599-9/comparisonmodel-test-numerical-simulations-container-ship-chirosca-gasparotti>
6. **Chiroșcă Ana-Maria**, Rusu Liliana, Sea state characteristics and the maritime traffic in the European Seas, Proceeding of the 20th International Multidisciplinary Scientific GeoConference (SGEM 2020), Geology and Mining, Ecology and Management, Volume 20, 863-870, 16-25 August, Albena, Bulgaria, <https://doi.org/10.5593/sgem2020/3.1/s15.111> (indexată Scopus) 4 / 6
7. Vazdoaga, I., **Chirosca, A.**, Rusu, L., Popa, V. -I., 2020. Extreme phenomena on Danube hydrodynamics and the influence on the navigation conditions, 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 18 - 24 August 2020, Vol. 20, 123-130, ISBN:978-619-7603-08-8 <https://doi.org/10.5593/sgem2020/3.1/s12.016> (indexată Scopus)
8. **Chiroșcă Ana-Maria**, Rusu Liliana 2020. Sea state characteristics and the maritime traffic in the European seas, 20th International Multidisciplinary Scientific GeoConference SGEM, 18 - 24 August, Vol. 20, 1314-2704, ISBN:978-619-7603-08-8, <https://doi.org/10.5593/sgem2020/3.1/s15.111> (Scopus indexed)

Papers presented at national conferences with international participation

1. **Chiroșcă Ana-Maria**, Rusu Liliana, „Numerical Simulations on Irregular waves for a container ship” presented 10th edition of the Scientific Conference organized by the Doctoral Schools of “Dunărea de Jos” University of Galați (SCDS-UDJG), 9-10 June 2022, Galați, România (award-winning presentation – first prize)
2. **Chiroșcă Ana-Maria**, Dănilă (Vâzdoagă) Ionela, Rusu Liliana, Popa Victor-Ionuț, Navigation conditions and restrictions along the Danube-Black Sea channel, presented at 9th edition of the Scientific

Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 10-11 June 2021, Galați, România

3. **Chiroșcă Ana-Maria**, Rusu Liliana, Evaluation of the maritime traffic, accidents and causalities in the European seas, presented at 9th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 10-11 June 2021, Galați, România
4. **Chiroșcă Ana-Maria**, Rusu Liliana, Analysis of the wave and wind conditions along the European seas for the last twenty years, presented at 9th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 10-11 June 2021, Galați, România (award-winning presentation)
5. **Chiroșcă Ana-Maria**, Dănilă (Vâzdoagă) Ionela, Rusu Liliana, Popa Victor-Ionuț, 2020. Danube Hydrodynamics and Navigation Traffic, presented at the 8th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 18-19 June 2020, Galați, România.
6. **Chiroșcă Ana-Maria**, Rusu Liliana, Marine Traffic on Mediterranean Seas and its Divisions, presented at the 8th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 18-19 June 2020, Galați, România
7. **Chiroșcă Ana-Maria**, Rusu Liliana, Comparison Between Model Test and Three CFD Studies for a Benchmark Container Ship presented at 8th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 18-19 June 2020, Galați, România (award-winning presentation) description...

● PROJECTS

06/2022 – CURRENT

CLIMEWAR (PN-III-P4-PCE-2021-0015)

CLIMEWAR (CLimate change IMPact Evaluation on future WAVE conditions at Regional scale for the Black and Mediterranean seas marine system), supported by a grant of the Ministry of Research, Innovation and Digitization, CNCS - UEFISCDI, project number PN-III-P4-PCE-2021-0015, within PNCDI III.

05/2021 – 05/2022

ANTREPRENORDOC POCU/ 380/6/13/

Integrated part of the target group - PhD students in the project Academic excellence and entrepreneurial values - scholarship system to ensure training opportunities and development of entrepreneurial skills of PhD students and postdoctoral students - **ANTREPRENORDOC, POCU / 380/6/13 / "Support for PhD students and researchers post-doctoral"**, financed from the European Social Fund through the HUMAN CAPITAL OPERATIONAL PROGRAM during May 2021 - May 2022

POSDRU/189/2.1/G/156695

Integrated part of the target group within the Training Program POSDRU / 189 / 2.1 / G / 156695, "Supporting the transition of students to the labor market through innovative internships in the South-East region" during June - August 2015

● HONOURS AND AWARDS

Honours and awards

- Diploma of Excellence for excellent results in research activity within IOSUD-UDJG in 2022, CEREX Gala.
- Award I for the paper: Numerical Simulations on Irregular waves for a container ship presented 10th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 9-10 June 2022, Galați, România
- Award of excellence for excellent results in the doctoral research activity within "Dunărea de Jos" University of Galați, December 8, 2021
- Award-winning article "Comparison Between Model Test and Three CFD Studies for a Benchmark Container Ship" within the PRECISI 2021 Competition, Awarding research results - articles by UEFISCDI, September, 2021
- Prize 2 for the presentation of the paper "Study on the behavior of benchmark container ships in regular waves" at the ModTech 2021 conference, International Conference, June 23-26, 2021, Eforie Nord, Romania
- Prize 2 for the presentation of the paper "Evaluation of the maritime traffic, accidents and causalities in the European seas" at the 9th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), June 10-11, 2021, Galați, Romania

- Prize 3 for the presentation of the paper "Comparison Between Model Test and Three CFD Studies for a Benchmark Container Ship "at the 8th edition of the Scientific Conference organized by the Doctoral Schools of "Dunărea de Jos" University of Galați (SCDS-UDJG), 18-19 June 2021, Galați, Romania, June 10-11, 2021, Galați, Romania
- The award of excellence for the work "Theoretical and Experimental Investigation of a Racing Sailboat Resistance "presented at the 39th Scientific Conference for Bachelor Degree Students CADET-NAV 2017, May 2017
- Award-winning presentation 2nd Prize and Special Prize for hydrodynamic experiment for the work: A. M. Chiroșcă, C. D. Obreja, Theoretical and Experimental Investigation of a Racing Sailboat Resistance, Student Scientific Session 2017, 19 May 2017
- Award for Outstanding Learning Outcomes, International Student Day, November 2016 Prize 3 for the paper: A. M. Chiroșcă, C. D. Obreja, PHP Transverse Stability Computer Code, Student Scientific Session "ARHINAV", December 2016
- 1st prize for the paper: A. M. Chiroșcă, C. D. Obreja, PHP Ship Weigh Computer Code, Student Scientific Session "ARHINAV", December 2015 Galați Municipality
- Award for exceptional students, December 2015 Award for Outstanding Learning Outcomes, International Student Day, November 2014

● ORGANISATIONAL SKILLS

Organisational skills

I have very good organizational skills because I am an enthusiastic and practical person. These skills have been developed in active participation as member in various projects such as "Schools for a Green Future", but also from being part of the organizing team for the junior prom where I received the diploma for "The best coordinator ".

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills and ability to work in teams, gained from participating in various projects and competitions in high-school. I have acquired these skills especially during participation in projects such as "Act Sustainable" in 2011 which was part of AIESEC.

I also took part in an event that celebrated European Union's Day (Spring Day in Europe, April 2013) when my team had to prepare a sketch that illustrated the distinctive characteristics of Romania, one of the member states. The participation enhanced my team-working abilities and also helped me develop my creative abilities, having the responsibility of elaborating on this content and matter.

● JOB-RELATED SKILLS

Job-related skills

I love working with people under high pressure and I have learnt how to manage material resources. These skills were obtained in the contest named "Paper Boat", 2014

Interaction abilities acquired through volunteering work at "Heart of a Child Foundation" ("Fundația Inimă de Copil") during October 2012 - June 2013.

● OTHER SKILLS

Other skills

- Adaptable (to any situation), punctual and organized;
- Passionate about technology, trying to keep up to date with all the new devices and innovations.

● DRIVING LICENCE

Driving Licence: AM | 18/02/2019 – 18/02/2029

Driving Licence: B1 | 18/02/2019 – 18/02/2029

Driving Licence: B | 18/02/2019 – 18/02/2029