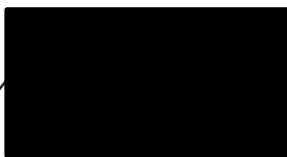
	
<b>Curriculum vitae Europass</b>	
<b>Informații personale</b>	
Nume / Prenume	<b>Alina Bogoi</b>
Adresă(e)	Bucuresti, Romania
Telefon(oane)	Fix: _____ Mobil: _____
Fax(uri)	
E-mail(uri)	
Naționalitate(-tăți)	Română
Data nașterii	
Sex	F
<b>Locul de muncă vizat / Domeniul ocupațional</b>	<b>(rubrică facultativă, vezi instrucțiunile)</b>
<b>Experiența profesională</b>	
<b>Perioada</b>	<b>2014-prezent</b>
Funcția sau postul ocupat	Conferentiar universitar
Activități și responsabilități principale	Cercetare la diferite contracte, conducere cursuri, laboratoare, seminarii și proiecte.
Numele și adresa angajatorului	Facultatea de inginerie Aerospațială, Universitatea "Politehnica" București
Tipul activității sau sectorul de activitate	Cercetare, Învățământ
<b>Perioada</b>	<b>2004-2014</b>
Funcția sau postul ocupat	Șef de lucrări
Activități și responsabilități principale	Cercetare la diferite contracte, conducere cursuri, laboratoare, seminarii și proiecte.
Numele și adresa angajatorului	Facultatea de inginerie Aerospațială, Universitatea "Politehnica" București
Tipul activității sau sectorul de activitate	Cercetare, Învățământ
<b>Date</b>	<b>2006 - 2009</b>
Funcția sau postul ocupat	Șef de lucrări , Cercetator gr. I
Activități și responsabilități principale	Cercetare la diferite contracte
Numele și adresa angajatorului	Institutul Național de Cercetare - Dezvoltare Turbomotoare COMOTI, Departamentul: Turbine

Tipul activității sau sectorul de activitate	Cercetare
Date	<b>1998-2004</b>
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Cercetare la diferite contracte, conducere laboratoare, seminarii și proiecte
Numele și adresa angajatorului	Facultatea de inginerie Aerospațială, Universitatea "Politehnica" București
Tipul activității sau sectorul de activitate	Cercetare, Învățământ
Date	<b>1997-1998</b>
Funcția sau postul ocupat	Preparator universitar
Activități și responsabilități principale	Cercetare la diferite contracte, conducere laboratoare
Numele și adresa angajatorului	Facultatea de inginerie Aerospațială, Universitatea "Politehnica" București
Tipul activității sau sectorul de activitate	Cercetare, Învățământ
Date	<b>1994-1997</b>
Funcția sau postul ocupat	Asistent-cercetător
Activități și responsabilități principale	Cercetare la diferite contracte
Numele și adresa angajatorului	Facultatea de inginerie Aerospațială, Universitatea "Politehnica" București
Tipul activității sau sectorul de activitate	Cercetare
<b>Educație și formare</b>	
<b>Perioada</b>	<b>2001-2003</b>
Calificarea / diploma obținută	<b>Doctor în Științe Aplicate</b> /diplomă de doctor obținută cu teza: " A two-phase two-component bubbly flow model"
Disciplinele principale studiate / competențe profesionale dobândite	Domeniul curgerilor bi-componente bifazice nestationare unidimensionale. Metode numerice pentru scheme conservative.
Numele și tipul instituției de învățământ / furnizorului de formare	Universitatea Catolica Louvain, Louvain La Neuve, Belgia
Nivelul în clasificarea națională sau internațională	ISCED 8
<b>Perioada</b>	<b>1993-1997</b>
Calificarea / diploma obținută	Matematician/diploma de matematician-mecanician obținută cu teza: " Metoda ecuațiilor integrale pe frontieră"
Disciplinele principale studiate / competențe profesionale dobândite	Analiză Matematică, Algebră, Geometrie, Analiză Funcțională , Mecanica mediilor Continue, Aerodinamică, Mecanica solidului, Mecanica fluidelor, Astronomie, Teoria măsurii. Noțiuni fundamentale și de specialitate în domeniul mecanicii fluidelor; Competențe în domeniul proiectării și cercetării științifice și lucrări de laborator.,
Numele și tipul instituției de învățământ / furnizorului de formare	Profil: Matematică-Mecanică; Specializarea: Fluide

Nivelul în clasificarea națională sau internațională	ISCED 6										
<b>Perioada</b>	1988-1993										
Calificarea / diploma obținută	Inginer de aviație/diploma de inginer mecanic obținută cu teza: "Metoda relațiilor integrale aplicată la studiul stratului limită laminar incompresibil și compresibil"										
Disciplinele principale studiate / competențe profesionale dobândite	Matematică, mecanica avionului, calculul și construcția aeronavelor, turbomotoare, motoare rachetă, motoare cu piston de aviație, metode numerice, dinamica gazelor, automatica motoarelor de aviație, infrastructură aeroportuară. Noțiuni fundamentale și de specialitate în domeniul aeronautic și astronomic; Competențe în domeniul proiectării și cercetării științifice și lucrări de laborator specifice sistemelor de propulsie,										
Numele și tipul instituției de învățământ / furnizorului de formare	Profil: Mecanic; Specializarea: Sisteme de propulsie										
Nivelul în clasificarea națională sau internațională	ISCED 7										
<b>Perioada</b>	1984 — 1988										
Calificarea / diploma obținută	Diploma de Bacalaureat										
Disciplinele principale studiate / competențe profesionale dobândite	Matematică, Fizică, Chimie, Biologie, Lb. Română, Istorie, Geografie Noțiuni fundamentale în toate domeniile amintite.										
Numele și tipul instituției de învățământ / furnizorului de formare	Liceul Matematică -Fizică "Unirea" - Turnu-Magurele, Specializarea - Matematică-Fizică										
Nivelul în clasificarea națională sau internațională	Învățământ preuniversitar										
<b>Aptitudini și competențe personale</b>											
Limba(i) maternă(e)	<b>Română</b>										
Limba(i) străină(e) cunoscută(e)											
Autoevaluare	<b>Înțelegere</b>				<b>Vorbire</b>				<b>Scriere</b>		
<i>Nivel european (*)</i>	Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă		
<b>Limba Engleză</b>	C2	Experimentat	C2	Experimentat	C2	Experimentat	C2	Experimentat	C2	Experimentat	
<b>Limba Franceză</b>	B2	Intermediar	B2	Intermediar	B2	Intermediar	B2	Intermediar	B1	Intermediar	
<b>Limba Germană</b>	A2	Elementar	A2	Elementar	A2	Elementar	A2	Elementar	A2	Elementar	
	(*) <a href="#">Nivelul Cadrului European Comun de Referință Pentru Limbi Străine</a>										
Competențe și abilități sociale	Activitatea de profesor în cadrul Facultății de inginerie aerospațială, mi-a oferit posibilitatea să cunosc un număr foarte mare de persoane, diferite, cu care a trebuit să socializez și să colaborez în vederea obținerii unui rezultat final bun. Aceste condiții au determinat perfecționarea abilităților mele de comunicare, de înțelegere a psihologiei umane în general, dar au dat naștere și unui puternic simț de responsabilitate în ceea ce privește activitatea la locul de muncă. Abilitățile de comunicare și munca în echipă au fost calitățile care mi-au permis și m-au ajutat în activitate, acestea fiind indispensabile în profesia mea.										
Competențe și aptitudini organizatorice	Experiența profesională acumulată pe parcursul anilor de activitate în învățământul superior, m-a ajutat să-mi organizez mai bine activitatea și să-mi pun în valoare cunoștințele.										
Membre în asociații profesionale de prestigiu, naționale și internaționale	<b>ROMAI</b> - Societatea Română de Matematică Aplicată și Industrială										
ORCID code	0000-0002-0277-1090										

Brainmap code/ UEFISCDI ID (UEF-ID)	U-1700-034V-8873
Competențe și aptitudini tehnice	<p><b>Cursuri noi în învățământul universitar</b></p> <ul style="list-style-type: none"> <li>● Differential Equations</li> <li>● Differential and Integral Calculus</li> <li>● Metode cu diferențe finite</li> <li>● Ecuatiile generale ale dinamicii gazelor</li> <li>● Bazele aeroacusticii</li> <li>● Acoustics</li> <li>● Optics and acoustics</li> </ul> <p><b>Cursuri noi în învățământul postuniversitar de master</b></p> <ul style="list-style-type: none"> <li>● Mișcări netaționare în aviație</li> <li>● Bazele analizei numerice</li> </ul>
Competențe și aptitudini de utilizare a calculatorului	<p>Sistem de operare: : DOS, WINDOWS</p> <p>Software : Matlab, MS-Office( Word, Excell, Power Point ), Tecplot Mathematica, Scientific WorkPlace, Mathcad</p> <p>Limbaje de programare : Fortan, Turbo Pascal, C++</p> <p>Solvere Comerciale : Gambit, Ansys Fluent, Ansys CFX, AUTOCAD.</p>
Competențe și aptitudini artistice	Pasionată de pictura impresionistă, muzica clasică și literatură rusă.
Persoane ce pot furniza informații despre competențe și aptitudini	<p><b>Profesor Emerit Michel Giot</b>, Université catholique de Louvain, Unité Thermodynamique Place du Levant 2, B-1348 Louvain-la-Neuve, Belgium giot@term.ucl.ac.be</p> <p><b>Profesor Dr. Demosthenes (Demos) T. Tsahalis</b>, Learning Foundation in Mechatronics (LFME), Irakleiou 17, GR-11141 , Athens Greece, tsahalis@lfme.gr</p> <p><b>Profesor Sorin Mitran</b>, Department of Mathematics University of North Carolina Chapel Hill, NC, 27599-3250 <a href="http://www.math.unc.edu/">http://www.math.unc.edu/</a></p>
Permis(e) de conducere	Permis de conducere, categoria B
<b>Informații suplimentare</b>	Includeți aici orice alte informații utile, care nu au fost menționate anterior, de exemplu: persoane de contact, referințe etc. (Rubrică facultativă, vezi instrucțiunile)

20.10.2025



Bogoi Alina

<p><b>Anexă</b> <b>(Listă de lucrări)</b></p>	<p><b>Articole în extenso în reviste cotate ISI, processings indexate ISI Thomson-Reuters sau SAE</b></p> <ol style="list-style-type: none"> <li> <p><b>Bogoi A.</b>, Cican G., Cristea L., Crunțeanu D.-E., Leventiu C., Totu A-G, Comparing a New Passive Lining Method for Jet Noise Reduction Using 3M™ Nextel™ Ceramic Fabrics Against Ejector Nozzles", Technologies 2025, 13(7), 295; <a href="https://doi.org/10.3390/technologies13070295">https://doi.org/10.3390/technologies13070295</a> (registering DOI) <a href="https://www.mdpi.com/2227-7080/13/7/295">https://www.mdpi.com/2227-7080/13/7/295</a> FI:3.6 <b>WOS:</b></p> </li> <li> <p><b>Bogoi A.</b>, Strătilă S., Cican G., Crunțeanu D.-E., Leventiu C., <b>"Impact of Stochastic Atmospheric Density on Satellite Orbit Stability"</b>, Symmetry 2025, 17(3), 402; ISSN 2073-8994 <a href="https://doi.org/10.3390/sym17030402">https://doi.org/10.3390/sym17030402</a> Published: 7 March 2025 <a href="https://www.mdpi.com/2073-8994/17/3/402">https://www.mdpi.com/2073-8994/17/3/402</a> FI:6.2 <b>WOS:</b></p> </li> <li> <p><b>Bogoi A.</b>, Cican G., Gall M., Totu A-G., Crunțeanu D.-E., Leventiu C., <b>"Comparative Study of Noise Control in Micro Turbojet Engines with Chevron and Ejector Nozzles Through Statistical, Acoustic and Imaging Insight"</b>, Applied Sciences, 2025, 15(1), 394; ISSN 2076-3417, eISSN 2076-3417 <a href="https://doi.org/10.3390/app15010394">https://doi.org/10.3390/app15010394</a> <a href="https://www.mdpi.com/2076-3417/15/1/394">https://www.mdpi.com/2076-3417/15/1/394</a> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=0,5&amp;q=%22alina+bogoi%22&amp;scisbd=1">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=0,5&amp;q=%22alina+bogoi%22&amp;scisbd=1</a> <a href="https://www.ivysci.com/en/articles/8296452_Comparative_Study_of_Noise_Control_in_Micro_Turbojet_Engines_with_Chevron_and_Ejector_Nozzles_Through_Statistical_Acoustic_and_Imaging_Insight">https://www.ivysci.com/en/articles/8296452_Comparative_Study_of_Noise_Control_in_Micro_Turbojet_Engines_with_Chevron_and_Ejector_Nozzles_Through_Statistical_Acoustic_and_Imaging_Insight</a> FI:2.5 <b>WOS:001393489200001</b></p> </li> <li> <p>Totu A-G., Deaconu M., Cristea L., <b>Bogoi A.</b>, Crunțeanu D.-E., Cican G., <b>"Experimental Analysis of Acoustic Spectra for Leading/Trailing-Edge Serrated Blades in Cascade Configuration"</b>, Processes 2024, 12(11), 2613, November 2024, eISSN 2227-9717 <a href="https://doi.org/10.3390/pr12112613">https://doi.org/10.3390/pr12112613</a> <a href="https://www.mdpi.com/journal/processes">https://www.mdpi.com/journal/processes</a> <a href="https://scholar.google.com/scholar?hl=ro&amp;as_sdt=0,5&amp;q=%22alina+bogoi%22&amp;scisbd=1">https://scholar.google.com/scholar?hl=ro&amp;as_sdt=0,5&amp;q=%22alina+bogoi%22&amp;scisbd=1</a> <a href="https://www.researchgate.net/publication/385985791_Experimental_Analysis_of_Acoustic_Spectra_for_LeadingTrailingEdge_Serrated_Blades_in_Cascade_Configuration">https://www.researchgate.net/publication/385985791_Experimental_Analysis_of_Acoustic_Spectra_for_LeadingTrailingEdge_Serrated_Blades_in_Cascade_Configuration</a> <a href="https://www.scilit.com/publications/e535d2292443aee6f3b4a9de7fd08b4a">https://www.scilit.com/publications/e535d2292443aee6f3b4a9de7fd08b4a</a> <a href="https://ouci.dntb.gov.ua/en/works/lmYoabml/">https://ouci.dntb.gov.ua/en/works/lmYoabml/</a> FI:2.8 <b>WOS:001365963200001</b></p> </li> <li> <p><b>Bogoi, A.</b>, Cuciuc, T., Cojocea, A. V., Gall, M., Porumbel, I., Hritcu, C. E., <b>"Experimental Pressure Gain Analysis of Pulsed Detonation Engine"</b>, C.E. Experimental Pressure Gain Analysis of Pulsed Detonation Engine. Aerospace 2024, 11, 465, June 2024, eISSN 2226-4310 <a href="https://doi.org/10.3390/aerospace11060465">https://doi.org/10.3390/aerospace11060465</a>, <a href="https://www.mdpi.com/journal/aerospace">https://www.mdpi.com/journal/aerospace</a> <a href="https://ouci.dntb.gov.ua/en/works/loe6AMe7/">https://ouci.dntb.gov.ua/en/works/loe6AMe7/</a> <a href="https://www.researchgate.net/publication/381369148_Experimental_Pressure_Gain_Analysis_of_Pulsed_Detonation_Engine">https://www.researchgate.net/publication/381369148_Experimental_Pressure_Gain_Analysis_of_Pulsed_Detonation_Engine</a>; <a href="https://m.x-mol.net/paper/detail/1800768037500547072">https://m.x-mol.net/paper/detail/1800768037500547072</a>; <a href="https://www.semanticscholar.org/paper/Experimental-Pressure-Gain-Analysis-of-Pulsed-Bogoi-Cuciuc/62d5822d3d08dc5eb5166c1d35bf9fec93b3fc22">https://www.semanticscholar.org/paper/Experimental-Pressure-Gain-Analysis-of-Pulsed-Bogoi-Cuciuc/62d5822d3d08dc5eb5166c1d35bf9fec93b3fc22</a> FI:2.6 <b>WOS:001254686900001</b></p> </li> <li> <p>Cican G., Gall M., <b>Bogoi A.</b>, Deaconu M., Crunțeanu D.-E. <b>"Experimental Investigation of a Micro Turbojet Engine Chevrons Nozzle by Means of the Schlieren Technique"</b>, Experimental Investigation of a Micro Turbojet Engine Chevrons Nozzle by Means of the Schlieren Technique. Inventions 2023, 8, 145 <a href="https://doi.org/10.3390/inventions8060145">https://doi.org/10.3390/inventions8060145</a> <a href="https://www.mdpi.com/2411-5134/8/6/145">https://www.mdpi.com/2411-5134/8/6/145</a> FI:3.4 <b>WOS:0011309080000011</b></p> </li> <li> <p><b>Bogoi A.</b>, Dan C.I, Strătilă S., Cican G., Crunțeanu D.-E. <b>"Assessment of Stochastic Numerical Schemes for Stochastic Differential Equations with "White Noise" Using Itô's Integral"</b>, November 2023, Symmetry 15(11):2038 <a href="https://doi.org/10.3390/sym15112038">https://doi.org/10.3390/sym15112038</a>, eISSN 2073-8994 <a href="https://www.researchgate.net/publication/375544218_Assessment_of_Stochastic_Numerical_Schemes_for_Stochastic_Differential_Equations_with_White_Noise_Using_Ito's_Integral">https://www.researchgate.net/publication/375544218_Assessment_of_Stochastic_Numerical_Schemes_for_Stochastic_Differential_Equations_with_White_Noise_Using_Ito's_Integral</a> <a href="https://go.gale.com/ps/i.do?id=GALE%7CA774376031&amp;sid=sitemap&amp;v=2.1&amp;it=r&amp;p=AONE&amp;sw=w&amp;userGroup=anon%7Ed2f47de6&amp;aty=open-web-entry">https://go.gale.com/ps/i.do?id=GALE%7CA774376031&amp;sid=sitemap&amp;v=2.1&amp;it=r&amp;p=AONE&amp;sw=w&amp;userGroup=anon%7Ed2f47de6&amp;aty=open-web-entry</a> <a href="https://www.mdpi.com/2073-8994/15/11/2038">https://www.mdpi.com/2073-8994/15/11/2038</a></p> </li> </ol>
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8. Isvoranu D., Dănăilă S., **Bogoi A.**, Leventiu C.  
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FI:  
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9. **Bogoi A.**, Seynhaeve, JM., Giot, M., Oliviu Sugar; Rugescu R. D  
**Front wave prediction in water hammer phenomena involving two-phase flows**,  
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November 15-21, 2013, San Diego, California, USA, 7 pages  
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[http://scholar.google.ro/scholar?start=0&q=bogoi+alina&hl=ro&as\\_sdt=0,5](http://scholar.google.ro/scholar?start=0&q=bogoi+alina&hl=ro&as_sdt=0,5);  
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[http://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=CitationReport&qid=71&SID=2FkZ8dxcDlGZ6GMf1bz&page=1&doc=2](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=71&SID=2FkZ8dxcDlGZ6GMf1bz&page=1&doc=2)  
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10. Rugescu R., **Bogoi A.**, Gruzea A., Micu E.,  
**Unsteady code for combustion instability within liquid propellant rocket engines**  
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11. Carligeanu, R., **Bogoi A.**, Rugescu, R. D.,  
**Transit code for unsteady flows in solar-gravity draught Turbine towers**,  
  
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ISBN:978-0-7918-4398-7; DOI: 10.1115/GT2010-22518 Document Type: Conference Paper; SOURCE:  
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12. Cucumita C., Vilag V., Popescu J., Petcu R.; **Bogoi A.**, & Stanciu V,  
**Numerical study of an axial gas-turbine stage. The simulation of the loads' effect upon the geometry of a turbine rotor**,  
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ISBN:978-3-901509-70-4, ISSN: 1726-9679, SOURCE: SCOPUS; INSPEC;  
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FI:  
WOS:000282335600394
13. Tache, F., Rugescu, R. D., **Bogoi A.**,  
**Air flow study on the NERVA space launcher aileron**,  
  
20th DAAAM WORD Symp, Vienna, Austria, EU, 25-28th November, 2009 pages 0527-0528,  
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	<b>Improvement of Higher Education in Engineering - Fluid Engineering Informatics Platform</b> , 2010-2013. (3 ani)			
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	(Pn8) Contract de Grant nr. 40528/2003; tema nr. 13. / COD CNCIS 46, <b>Modelarea matematica si numerica a curgerilor bifazice</b> , 2003. (2 ani) Faza I., 2003, Modelarea matematica a curgerilor bifazice Faza II., 2004, Simularea numerică a curgerilor bifazice	Cercetător	2003-2004	
	(Pn9) Contract nr. 34967/2001 COD CNCIS 661, <b>Analiza de senzitivitate a performantelor sistemelor gazodinamice si hidrodinamice cu numar mare de parametri, cu aplicatii la motoarele aeroreactoare si sistemele termohidraulice, 2001.</b> (1an) Faza II, 2002, Calculul senzitivitatii raspunsului pentru curgeri unidimensionale nestationare.	Cercetător	2002	
	(Pn10) Contract nr. 34967/2001 COD CNCIS 661, <b>Analiza de senzitivitate a performantelor sistemelor gazodinamice si hidrodinamice cu numar mare de parametri, cu aplicatii la motoarele aeroreactoare si sistemele termohidraulice, 2001.</b> (1 an) Faza I., 2001, Dezvoltarea modelelor continue a senzitivitatii unui raspuns neliniar prin metoda adjuncta, pentru curgeri modelate prin ecuatia Laplace si prin sisteme hiperbolice de ecuatii cu derivate partiale, 2001	Responsabil	2001	
	(Pn11) Tema A-682 C.N.C.S.U. <b>Studiul miscarilor multifazice cu aplicatii la cresterea randamentului transferului de caldura si-a fiabilitatii sistemelor energetice</b> , 1998	Cercetător	1998	
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	(Pn13) Contract nr. 40-96-03/1996, <b>Tema B-9.1 Curgerea prin si in afara ajutorajelor fara reactii chimice-modele simple ale turbulentei</b> , 1996	Cercetător	1996	
	<b>Conducere proiecte de diplomă, disertație,</b>	1	<b>35</b> de proiecte de diplomă conduse cadrul Facultatii de Inginerie Aerospaciala, Universitatea Politehnica din Bucuresti.	
		2	<b>10</b> de proiecte de disertație conduse cadrul Facultatii de Inginerie Aerospaciala, Universitatea Politehnica din Bucuresti.	
	<b>Introducere noi discipline si laboratoare noi, confirmate prin manuale si indrumare publicate</b>	1	<b>Cursuri noi în învățământul universitar</b> <ul style="list-style-type: none"> <li>- Differential Equations</li> <li>- Differential and Integral Calculus</li> <li>- Metode cu diferențe finite</li> <li>- Ecuațiile generale ale dinamicii gazelor</li> <li>- Bazele aeroacusticii</li> <li>- Acoustics</li> <li>- Optics and acoustics</li> </ul> <b>Cursuri noi în învățământul postuniversitar de master</b> <ul style="list-style-type: none"> <li>● Mișcări nestationare în aviație</li> </ul> Bazele analizei numerice	
		2	<b>Lucrări noi de laborator</b>	

**Director programe  
parteneriat academic  
international/Erasmus**

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2025

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(Ca1) **Bogoi A.**, *An introduction to differential equations*, Editura Monitorul Oficial, 2014,(444 pag), ISBN:978-973-567-874-6

(Ca2) Zaharia S.E. , **Bogoi A.**, *Metode numerice pentru rezolvarea problemelor ingineresti*, Editura PAIDEIA, 2009.(405 pag), ISBN: 978-973-596-424-4

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**Experiența obținută în programe internaționale sau naționale:**

Program/Project	Funcție	Perioada:
(Pi) <i>Toward new specialists in a less polluted planet (Către noi specialiști pe o planetă mai puțin poluată)</i> TOPPLAN (ID: 120234949), Granturi SEE și Norvegiene / SEE 2014-2020, 1 februarie 2023 - 30 aprilie 2024	Director proiect	2023-2024
<b>Internationale</b>		
(Pi1) ERASMUS 071: <i>Aerospace Engineering</i> , 2014-2021. (1 an)	Cercetător	2014-2021
(Pi2) SAFTA, ESTEC Contract no. 4000109853/13/NL/SC: <i>Software for thermal and flow fields analysis in the supersonic/hypersonic boundary layers. Verifications and uncertainty qualification</i> , 2014.	Cercetător	2014
(Pi3) ERASMUS: <i>Space Engineering</i> , 2011-2014. (3 ani)	Cercetător	2011-2014
(Pi4) ERASMUS: <i>Space Telecommunications</i> , 2010-2013. (3 ani)	Cercetător	2010-2013
(Pi5) SOCRATES-ERASMUS: <i>Space Telecommunications</i> , 2008-2010. (2 ani)	Cercetător	2008-2010
(Pi6) WAHA Project: <i>"Contribution of UCL to WAHA modeling"</i> , 2001-2003 (3 ani)	Cercetător	2001-2003
(Pi7) WAHALoads: <i>"Water Hammer Two-Phase Two-Component flow model"</i> , 2001-2002. (2 ani)	Cercetător	2001-2002
<b>Nationale</b>		
(Pn1) Contract no. 72-181/2008, Program 4 - Partnerships in priority areas, <i>"Optimizarea aerodinamica a nacelei motoarelor turbopropulsoare in vederea cresterii sigurantei zborului si a reducerii nivelului de poluare"</i> -OPATAN, 2008	Cercetător	2008-2011
(Pn2) Reduction of noise pollution produced by the jet of a turbo engine by experimenting new types of chevrons ( Reducerea poluării fonice produsă de jetul turbomotoarelor de aviație experimentând noi tipuri de chevroane) REDPFONJET (ID: 220235479) GNaC ARUT / ARUT 2023 , 12 octombrie 2023 - 10 ianuarie 2025	Director proiect	2023-2025
(Pn3) Contract PN-II-PT-PCCA-2013-4-1187- Contract nr. 286/2014: <i>"Turbina cu gaze utilizând combustia in situ (TURIST)"</i> , 2014-2016, (1 an)	Cercetător	2014-2016
(Pn4) PC-CNMP Grant 82076, Bucharest, 01 October 2008, Contractor UPB: <i>Near-orbital Exo-atmospheric Re-entry Vehicle Accessor NERVA</i> , /2008, /2009, /2010, /2011. (4 ani)	Cercetător	2008-2011

(Pn5) PiiF, cod contract: POSDRU/86/1.2/S/61830, autoritatea contractantă: AMPOSDRU, Programul Operațional Sectorial pentru Dezvoltarea Resurselor Umane 2007-2013 (POS DRU), program cofinanțat din Fondul Social European, Axa prioritară 1, Domeniul major de intervenție 1.2, beneficiar: U.T.C.B., <b>Creșterea calității învățământului superior de inginerie - Platforma Informatică pentru Ingineria Fluidelor (Quality Improvement of Higher Education in Engineering - Fluid Engineering Informatics Platform)</b> , 2010-2013. (3 ani)	Cercetător	2010-2013
(Pn6) Contract CNMP 82-086/2008, <b>Metode avansate de analiză și control în hemodinamică cu aplicații în chirurgia vasculară periferică</b> , 2008-2011 (3ani)	Cercetător	2008-2011
(Pn7) Grant CNCSIS cod A380/2006 (GR139 T-74 MEC), <b>Computational and Design Methodology in Inverse Dynamics for the Non-conventional Aeroacoustic Tunnel without Driving Mechanisms WINNDER</b> , Phase-2 2006. (1 an)	Cercetător	2006
(Pn8) Contract de Grant nr. 40528/2003; tema nr. 13. / COD CNCSIS 46, <b>Modelarea matematica si numerica a curgerilor bifazice</b> , 2003. (2 ani) Faza I., 2003, Modelarea matematica a curgerilor bifazice Faza II., 2004, Simularea numerică a curgerilor bifazice	Cercetător	2003-2004
(Pn9) Contract nr. 34967/2001 COD CNCSIS 661, <b>Analiza de senzitivitate a performantelor sistemelor gazodinamice si hidrodinamice cu numar mare de parametrii, cu aplicatii la motoarele aeroreactoar si sistemele termohidraulice, 2001.</b> (1an) Faza II, 2002, Calculul senzitivitatii raspunsului pentru curgeri unidimensionale nestationare.	Cercetător	2002
(Pn10) Contract nr. 34967/2001 COD CNCSIS 661, <b>Analiza de senzitivitate a performantelor sistemelor gazodinamice si hidrodinamice cu numar mare de parametrii, cu aplicatii la motoarele aeroreactoar si sistemele termohidraulice, 2001.</b> (1 an) Faza I., 2001, Dezvoltarea modelelor continue a senzitivitatii unui raspuns neliniar prin metoda adjuncta, pentru curgeri modelate prin ecuatie Laplace si prin sisteme hiperbolice de ecuatie cu derivate parțiale, 2001	Responsabil	2001
(Pn11) Tema A-682 C.N.C.S.U. <b>Studiul miscarilor multifazice cu aplicatii la cresterea randamentului transferului de caldura si-a fiabilitatii sistemelor energetice</b> , 1998	Cercetător	1998
(Pn12) Tema A-550 C.N.C.S.U. <b>Studiul miscarilor multifazice cu aplicatii la cresterea randamentului transferului de caldura si-a fiabilitatii sistemelor energetice</b> , 1997	Cercetător	1997
(Pn13) Contract nr. 40-96-03/1996, <b>Tema B-9.1 Curgerea prin si in afara ajutorajelor fara reactii chimice-modele simple ale turbulentei</b> , 1996	Cercetător	1996

1	35 de proiecte de diplomă conduse cadrul Facultatii de Inginerie Aerospătiala, Universitatea Politehnica din Bucuresti.
2	10 de proiecte de disertație conduse cadrul Facultatii de Inginerie Aerospătiala, Universitatea Politehnica din Bucuresti.

1	Cursuri noi în învățământul universitar
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	<ul style="list-style-type: none"> <li>- Differential Equations</li> <li>- Differential and Integral Calculus</li> <li>- Metode cu diferențe finite</li> <li>- Ecuațiile generale ale dinamicii gazelor</li> <li>- Bazele aeroacusticii</li> <li>- Acoustics</li> <li>- Optics and acoustics</li> </ul> <p><b>Cursuri noi în învățământul postuniversitar de master</b></p> <ul style="list-style-type: none"> <li>● Mișcări netaționare în aviație</li> </ul> <p>Bazele analizei numerice</p>	
2	<b>Lucrări noi de laborator</b>	
<p><b><i>Toward new specialists in a less polluted planet (Către noi specialiști pe o planetă mai puțin poluată)</i></b>  TOPPLAN (ID: 120234949), Granturi SEE și Norvegiene / SEE 2014-2020, 1 februarie 2023 - 30 aprilie 2024</p> <p><b><i>Reduction of noise pollution produced by the jet of a turbo engine by experimenting new types of chevrons (</i></b>  <b><i>Reducerea poluării fonice produsă de jetul turbomotoarelor de aviație experimentând noi tipuri de chevroane)</i></b>  REDPFONJET (ID: 220235479) GNaC ARUT / ARUT 2023 , 12 octombrie 2023 - 10 ianuarie 2025</p>		