UNIVERSITATEA DIN CRAIOVA
FACULTATEA DE ŞTIINŢE
ŞCOALA DOCTORALĂ DE ŞTIINŢE

ANUNŢĂ:

SUSŢINEREA PUBLICĂ A TEZEI DE DOCTORAT INTITULATE

"A VARIATIONAL ANALYSIS OF SOME CLASSES OF INTEGRAL AND DIFFERENTIAL EQUATIONS: EIGENVALUE PROBLEMS AND TORSIONAL CREEP PROBLEMS",

elaborate de domnişoara **FĂRCĂŞEANU A. MARIA**, în vederea obţinerii titlului ştiinţific de doctor în Domeniul *Matematică,* va avea loc în ziua de *10 octombrie 2018,* la ora 11^{00}, în *Sala 116 a Facultăţii de Ştiinţe*.

Teza de doctorat a fost depusă la Biblioteca Universităţii din Craiova şi poate fi consultată la Sala de Lectură FEAA 467 D.

Componenţa comisiei de doctorat este următoarea:

PREŞEDINTE:	**Prof.univ.dr. SORIN MICU** Universitatea din Craiova
CONDUCĂTOR ŞTIINŢIFIC	**Prof.univ.dr. MIHAI MIHĂILESCU** Universitatea din Craiova
MEMBRI REFERENŢI:	**Assoc.Prof.Dr. MARIAN BOCEA** Loyola University Chicago
	Cercet. şt. gr. I dr. LIVIU IGNAT Institutul de Matematică al Academiei Române
	Prof.univ.dr. ALEXANDRU KRISTALY Universitatea Babeş-Bolyai din Cluj-Napoca

Data astăzi: 10.09.2018

Maria Fărcășeanu

Curriculum Vitae

Informații personale

E-mail

URL https://sites.google.com/site/mariafarcaseanu

Educație și formare

2015-prezent Doctorandă în cadrul Școlii Doctorale de Științe, Domeniul Matematică, la Universitatea din Craiova; teză de doctorat: "A Varyational Analysis of Some Classes of Integral and Differential Equations: Eigenvalue Problems and Torsional Creep Problems"; conducător științific: Prof. Univ. Dr. Mihai Mihăilescu.

2013-2015 Master "Matematici aplicate" la Facultatea de Științe Exacte din cadrul Universității din Craiova; lucrarea de disertație: "Eigenvalue Problems for Elliptic Operators", conducători științifici: Prof. Univ. Dr. Mihai Mihăilescu și Dr. Denisa Stancu-Dumitru. Media de promovare a anilor de studii: 9.88, Media examenului de disertație: 10.

2010-2013 Facultatea de Matematică și Științe ale Naturii din cadrul Universității din Craiova, Domeniul Matematică, Specializarea Matematică informatică; lucrarea de licență "Inegalități integrale", conducător științific Lect. Univ. Dr. Ionel Rovența. Media de promovare a anilor de studii: 9.57, Media examenului de licență: 9.62.

2006-2010 Colegiul Național "Frații Buzești", Craiova, specializarea Matematică-Informatică intensiv Informatică.

Granturi științifice

- *Membru* în proiectul de cercetare: "Variable Exponent Analysis: Partial Differential Equations and Calculus of Variations" (CNCS-UEFISCDI, număr proiect PN-II-ID-PCE-2012-4-0021), 02 Septembrie 2013-30 Septembrie 2016, director proiect: Mihai Mihăilescu.
- *Membru* în proiectul de cercetare: "Analysis of Schrodinger equations" (CNCS-UEFISCDI, număr proiect PN-II-RU-TE- 2014-4-0007), 01 Octombrie 2015-30 Septembrie 2017, director proiect: Liviu Ignat.
- *Membru* în proiectul de cercetare: "Typical and Nontypical Eigenvalue Problems for Some Classes of Differential Operators" (CNCS-UEFISCDI, număr proiect PN-III-P4-ID-PCE-2016-0035), 01 August 2017-prezent, director proiect: Mihai Mihăilescu.

Competențe personale

Limba maternă Română

Limbi străine	Engleză-nivel intermediar
	Germană-nivel începător
Competențe de comunicare	Bune competențe de comunicare dobândite prin expunerea cercetării mele la diverse conferințe/workshopuri/congrese științifice naționale.
Competențe organizaționale	Spirit organizatoric, flexibilitate, deschidere spre nou, responsabilitate, lucru în echipă, capacitate de analiză și sinteză.
Competențe informatice	O bună cunoaștere a instrumentelor Microsoft Office. Limbaje de programare: Latex, Mathlab, C++, Baze de date
Alte competențe	Redactarea de articole, prezentări beamer

Publicații

1. M. Fărcășeanu, M. Mihăilescu and D. Stancu-Dumitru: On the set of eigenvalues of some PDEs with homogeneous Neumann boundary condition, *Nonlinear Analysis*, **116** (2015), 19-25.
2. M. Fărcășeanu and D. Stancu-Dumitru: Existence of solutions for quasilinear elliptic equations involving a nonlocal term, *Electron. J. Diff. Equ.*, **293** (2015), 1-8.
3. M. Fărcășeanu: Eigenvalues for Finsler p-Laplacian with zero Dirichlet boundary condition, *An. Sti. U. Ovid. Co.-Mat.*, **24** (2016), 231-242.
4. M. Fărcășeanu, M. Mihăilescu and D. Stancu-Dumitru: A maximum principle for a class of first order differential operators, New Trends in Differential Equations, Control Theory and Optimisation, pp. 93-103, World Sci. Publ., Hackensack, NJ, (2016).
5. M. Fărcășeanu and M. Mihăilescu: Continuity of the first eigenvalue for a family of degenerate eigenvalue problems, *Arch. Math.*, **107** (2016), 659-667.
6. M. Fărcășeanu: An eigenvalue problem involving an anisotropic differential operator, *Complex Variables and Elliptic Equations*, **62** (2017), 297-306.
7. M. Fărcășeanu, M. Mihăilescu and D. Stancu-Dumitru: Perturbed fractional eigenvalue problems, *Discrete and Continuous Dynamical Systems-A*, **37** (2017), 6243-6255.
8. M. Fărcășeanu, M. Mihăilescu and D. Stancu-Dumitru: On the convergence of the sequence of solutions for a family of eigenvalue problems, *Mathematical Methods in the Applied Sciences*, **40** (2017), 6919-6926.
9. M. Fărcășeanu: On an eigenvalue problem involving the fractional (s,p)-Laplacian, *Fract. Calc. Appl. Anal.*, **21** (2018), 94-103.
10. M. Fărcășeanu, M. Mihăilescu: On a family of torsional creep problems involving rapidly growing operators in divergence form, *Proceedings of the Royal Society of Edinburgh*, in press.
11. M. Fărcășeanu, M. Mihăilescu and D. Stancu-Dumitru: On a family of torsional creep problems in Finsler metrics, submitted.
12. M. Fărcășeanu, M. Mihăilescu: The asymptotic behaviour of the sequence of solutions for a family of inhomogeneous equations, submitted.

Conferinţe, Workshopuri, Şcoli de vară

1. **Workshop for Young Researchers in Mathematics**, May 22-23, 2014, "Ovidius" University of Constanţa, Constanţa, Romania (title of the talk: *On the spectrum of some eigenvalue problems*)
   http://math.univ-ovidius.ro/Workshop/2014/WYRM/
2. **Regional Romanian-French Summer School in Applied Mathematics**, July 2-10, 2014, Sinaia, Romania
   http://imar.ro/RoFrSummerSchool/description.php
3. **Workshop for Young Researchers in Mathematics**, May 21-22, 2015, "Ovidius" University of Constanţa, Constanţa, Romania (title of the talk: *On the existence of solutions for a quasilinear elliptic equation involving a nonlocal term*)
   http://math.univ-ovidius.ro/Workshop/2015/WYRM/
4. **The Eight Congress of Romanian Mathematicians**, June 26 - July 1, 2015, "Alexandru Ioan Cuza" University of Iasi, Iasi, Romania (title of the talk: *On the spectrum of some eigenvalue problems*)
   http://www.math.uaic.ro/cmr2015/index.php?talks
5. **International Conference on Nonlinear Operators, Differential Equations and Applications (ICNODEA 2015)**, July 14-17, 2015, "Babes-Bolyai" University, Cluj-Napoca, Romania (title of the poster: *On the spectrum of some eigenvalue problems*)
   http://www.cs.ubbcluj.ro/~icnodeacj/index.htm
6. **Workshop for Young Researchers in Mathematics**, May 19-22, 2016, "Ovidius" University of Constanţa, Constanţa, Romania (title of the talk: *On the convergence of the sequence of solutions for a family of eigenvalue problems*)
   http://math.univ-ovidius.ro/Workshop/2016/WYRM/
7. **Regional Romanian-French Summer School in Applied Mathematics**, June 29 - July 7, 2016, Sinaia, Romania
   http://www.imar.ro/ cionescu/Scoalavara1.pdf
8. **Le 13eme Colloque Franco-Roumain en Mathematiques Appliquees - Special Session on Analyse et Controle des EDP**, August 25-29, 2016, "Alexandru Ioan Cuza" University of Iasi, Iasi, Romania (title of the talk: *On the convergence of the sequence of solutions for a family of eigenvalue problems*)
   http://www.math.uaic.ro/cfr2016/index.php?info
9. **Happy PDE's Days**, December 8-9, 2016, Institute of Mathematics "Simion Stoilow" of the Romanian Academy , Bucharest, Romania (title of the talk: *Continuity of the first eigenvalue for a family of degenerate eigenvalue problems*)
   http://www.imar.ro/ dtimotin/Ignat/afisHappyPDE.html
10. **Workshop Applied Mathematics: Methods and Modeling**, May 7-8, 2017, Craiova, Romania (title of the talk: *Perturbed fractional eigenvalue problems*)
    http://math.ucv.ro/wammm2017/index.html
11. **Workshop for Young Researchers in Mathematics**, May 17-20, 2017, Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Bucharest, Romania (title of the talk: *On a family of torsional creep problems involving rapidly growing operators in divergence form*)
    http://math.univ-ovidius.ro/Workshop/2017/WYRM/
12. **Regional Romanian-French Summer School in Applied Mathematics**, July 2-11, 2017, Sinaia, Romania
    http://imar.ro/CFM/CFM-EE-MatAppli-17.html
13. **The 8th International conference "Transform Methods and Special Functions, TMSF**

17", 27-30 August 2017, Institute of Mathematics and Informatics - Bulgarian Academy of Sciences, Sofia, Bulgaria (title of the talk: *Perturbed fractional eigenvalue problems*)
http://www.math.bas.bg/ tmsf/2017/

14. **The 6th International Conference on Mathematics and Informatics**, September 7-9, 2017, Sapientia Hungarian University of Transylvania, Târgu Mureș/Marosvásárhely, Romania (title of the talk: *On a family of torsional creep problems involving rapidly growing operators in divergence form*)
http://mitis.ro/mathinfo/2017/
15. **Nonlinear Difference and Differential Equations and their Applications NODDEA'2017**, October 26-28, 2017, University of Ruse, Bulgaria (title of the talk: *On a family of torsional creep problems involving rapidly growing operators in divergence form*)
http://conf.uni-ruse.bg/en/?cmd=dPage&pid=index
16. **Workshop on Differential Equations**, April 4-6, 2018, Central European University, Budapest (title of the poster: *Fractional eigenvalue problems*)
https://mathematics.ceu.edu/workshop-differential-equations-april-4-6-2018 -central-european-university-budapest
17. **First Romanian Itinerant Seminar on Mathematical Analysis and its Applications (RISMAA)**, April 20-21, 2018, Cluj-Napoca (title of the talk: *On a family of torsional creep problems involving rapidly growing operators in divergence form*)
http://www.cs.ubbcluj.ro/1st-rismaa/
18. **Workshop for Young Researchers in Mathematics**, May 17-18, 2018, Institute of Mathematics "Simion Stoilow" of the Romanian Academy, Bucharest, Romania (title of the talk: *On a family of torsional creep problems in Finsler metrics*)
http://math.univ-ovidius.ro/Workshop/2018/WYRM
19. **2018 EWM-EMS Summer School: Nonlocal interactions in Partial Differential Equations and Geometry**, May 21-25, 2018, Mittag-Leffler Institute Stockholm, Sweden (title of the poster: *On an eigenvalue problem involving the fractional* (s,p)*-Laplacian*)
https://ewmems2018mli.sciencesconf.org/
20. **Le 14e colloque Franco-Roumain de mathématiques appliquées. - Special Session on Analyse qualitative et numérique d'équations d'évolution**, August 27-31, 2018, University of Bordeaux, Bordeaux, France (title of the talk: *Torsional creep type problems*)
https://france-roumanie.sciencesconf.org/