Научно-стручно веће за природно-математичке науке
Предмет: Образац о испуњавању услова за избор у звање наставника

Област: Остале области
Звање: Редовни професор

Име и презиме
Марија Милошевић

Датум рођења
27.10.1982.

Назив и седиште установе/организације у којој је кандидат запослен
Природно-математички факултет у Нишу, Универзитет у Нишу

Радно место
Ванредни професор

Датум расписивања конкурса
11.11.2020.

Начин (место) објављивања
Лист „Послови" Националне службе за запошљавање, број 907 од 11.11.2020.

Звање за које је расписан конкурс
Ванредни професор или редовни професор за ужу научну област Математика

Звање за које кандидат конкурише (заокружити одговарајућу опцију):
1. Доцент
2. Доцент или ванредни професор
3. Ванредни професор
4. **Ванредни професор или редовни професор**
5. Редовни професор

Ужа научна област
Математика

1. Испуњени услови за избор у звање ванредни професор
(навести датум и број Одлуке о избору у звање наставника, као и назив органа који је донео)
04.04.2016, НСВ број 8/17-01-003/16-006, Научно-стручно веће за природно-математичке науке Унивезитета у Нишу

2. позитивна оцена педагошког рада која се утврђује у складу са чланом 13. Правилника о поступку стицања звања и заснивања радног односа наставника Универзитета у Нишу („Гласник Универзитета у Нишу" број 5/16)
(навести број и датум утврђене оцене)
Биће достављена са извештајем комисије

3. Остварене активности бар у четири елемента доприноса широј академској заједници из члана 4. Ближих критеријума за избор у звања наставника

- учешће у промотивним активностима Департмана за математику 2018. и 2019. године са наставницима и студентима („Наук није баук" 2018. и 2019. и „Ноћ истраживача" 2018.)
- учешће на манифестацији „Мај месец математике" са одржаним предавањем 2018. године на Природно-математичком факултету у Нишу
- од 2019. године чланство у уређивачком одбору часописа FILOMAT, који издаје Природно-математички факултет у Нишу
- чланство у комисијама за спровођење пријемних испита на Департману за математику
- учешће у реализацији припремне наставе за пријемни испит за упис ОАС Математике на Природно-математичком факултету у Нишу
- чланство у комисијама за писање извештаја за изборе у наставна и истраживачка звања
- чланство у комисији за одбрану докторске дисертације др Горице Павловић-Рајковић, 2014.
- од школске 2008/2009. до 2017/2018. извођење наставе из предмета „Вероватноћа и математичка статистика" у Специјализованом математичком одељењу гимназије „Светозар Марковић" у Нишу
- учешће у реализацији припремне наставе за пријемни испит за упис у прву годину Специјализованог математичког одељења гимназије „Светозар Марковић" у Нишу
- рецензирање универзитетског уџбеника:
  Марија Крстић, Миљана Јовановић, *Вероватноћа и статистика у биологији, уџбеник са задацима*, Универзитет у Нишу, Природно-математички факултет Ниш, 2018.
- рецензирање радова у бројним часописима, као што су: Applied Mathematics and Computation, Journal of Computational and Applied Mathematics, FILOMAT, Abstract and Applied Analysis, Journal of Applied Mathematics, Stochastic Analysis and Applications, SCIENCE CHINA Mathematics, Journal of Difference Equations and Applications, Numerical Algorithms, Asian Journal of Control, Applied Numerical Mathematics
- излагања на семинарима:
  [1] *„Нумеричке и аналитичке апроксимације решења стохастичких диференцијалних једначина"*, Математички институт САНУ, Београд, Србија, 2011.
  [2] *„Поређење неких аналитичких и нумеричких метода апроксимације решења стохастичких диференцијалних једначина"*, Математички институт САНУ, Београд, Србија, 2014.
  [3] *"Backward Euler-ова и forward-backward Euler-ова метода за пантографске стохастичке диференцијалне једначине под условима нелинеарног раста"*, Свеучилиште Josipa Juraja Strossmayera, Осијек, Хрватска, 2019. (у оквиру билатералне сарадње Републике Србије и Републике Хрватске под руководством др Јасмине Ђорђевић, ванредног професора Природно-математичког факултета у Нишу и др Ненада Шувака, ванредног професора Свеучилишта Josipa Juraja Strossmayera у Осијеку)
  [4] *"Дивергенција backward Euler-ове методе за обичне стохастичке диференцијалне једначине"*, Семинар за стохастику, Природно-математички факултет у Нишу, 2020.
- похађање међународних курсева:
  [1] "*Financial Mathematics*" (DAAD), Пловдив, Бугарска, 2004.
  [2] "*Stochastic Processes an Modelling of System Reliability*" (DAAD), Битољ, Македонија, 2006.
  [3] "*Chaos, expansions and Ito calculus*" (DAAD), Нови Сад, Србија, 2010.
  [4] "*International Summer Academy 2012 on Advanced Stochastic Methods to Model Risk*" (DAAD), Улм, Немачка, 2012.
  [5] "*Mathematical models in economics and their computer implementation School*", Перм, Русија, 2013.
- од ступања у радни однос 2007. године извођење наставе (вежби или предавања) на свим нивоима студија на Депарману за математику, као и на основним академским студијама Департмана за хемију, биологију и географију Природно-математичког факултета у Нишу

- менторства при изради једног дипломског рада, 18 мастер радова и једне докторске дисертације, одбрањене 2019. године, кандидаткиње др Маје С. Обрадовић, која је једна од добитника Годишње награде у области математике и механике за студенте докторских студија коју је у 2020. доделио МИ САНУ

4. Менторство или коменторство бар једне докторске дисертације

Менторство при изради докторске дисертације др Маје С. Обрадовић под називом *„Нумеричке апроксимације решења неутралних стохастичких диференцијалних једначина са временски-зависним кашњењем"*, одбрањене 28.11.2019. године на Природно-математичком факултету у Нишу, Универзитета у Нишу
https://www.pmf.ni.ac.rs/download/doktorati/dokumenta/disertacije/2019/Dis_UNI_Maja_S_Obradovic_2019.pdf

4. замена: Један научни рад у часопису категорије М21 или М22, или један уџбеник или једна монографија (рад, уџбеник и монографија се не рачунају у ставовима 6., 8. и 9.)

5. Остварени резултати у развоју научно-наставног подмлатка, и то у барем једном од следећих елемената: учешћем у комисијама за одбрану докторске дисертације, магистарске тезе или мастер рада, држањем наставе на докторским студијама, држањем припрема студената за студентска такмичења, учешћем у завршним радовима на специјалистичким и мастер студијама и слично

- ангажовање на Докторским академским студијама математике на Природно-математичком факултету у Нишу (предмети: Нумеричко решавање стохастичких диференцијалних једначина, Одабрана поглавља из теорије вероватноћа, Стохастички процеси); ангажовање на Докторској школи математике
- члан комисије за одбрану докторске дисертације др Горице А. Павловић-Рајковић под називом *„Општи тип стабилности стохастичких функционалних диференцијалних једначина"*, одржане 21.07.2014. на Природно-математичком факултету у Нишу, Универзитета у Нишу
- менторство при изради докторске дисертације др Маје С. Обрадовић, одбрањене 2019. године на Природно-математичком факултету у Нишу, Универзитета у Нишу
- менторство при изради дипломског рада (Маја Суровић, *Централна гранична теорема и неке њене примене*, 2019.)
- менторства при изради мастер радова:

[1] Ана Јањић, *Вишеструко осигурање*, 2013.
[2] Драгана Здравковић, *Процена ризика у неживотном осигурању помоћу функције корисности*, 2013.
[3] Горана Петковић, *Примена граничних теорема теорије вероватноћа у неживотном осигурању*, 2014.
[4] Александра Алексов, *Моделирање броја штета у неживотном осигурању*, 2014.
[5] Небојша Гроздановић, *Примена ланаца Маркова у животном осигурању*, 2014.
[6] Јасмина Трифуновић, *Неки модели укупне штете у портфолију неживотног осигурања*, 2015.
[7] Бојана Јовановић, *Примена Poisson-ове случајне мере у теорији неживотног осигурања*, 2015.
[8] Стефани Стевановић, *Вероватноћа пропасти у Крамер-Лундберговом моделу*, 2016.
[9] Јелена Тошић, *Моделирање преосталог животног века осигураника*, 2016.
[10] Миљана Живковић, *Премије и резерве у портфолију неживотног осигурања*, 2017.
[11] Јелена Стаменковић, *Полија-Еплијев модел ризика у неживотном осигурању*, 2018.
[12] Јелена Милошевић, *Процеси обнављања и нека њихова уопштења*, 2018.
[13] Тамара Марковић, *Модели основних когнитивних функција*, 2019.
[14] Мирослав Цакић, *О неким моделима износа штета у портфолију неживотног осигурања*, 2019.
[15] Анастасија Јовановић, *Резерве и профит у портфолију животног осигурања*, 2019.
[16] Јелена Палуровић, *Неки контрапримери о граничним теоремама теорије вероватноће*, 2020.
[17] Невена Жујић, *Ризик у животном осигурању*, 2020.
[18] Миљана Стоиљковић, *Примена стохастичке методе триангулације у неживотном осигурању*, 2020.

- учешће у комисијама за одбрану дипломских радова (Душанка Момчиловић 2012, Данка Антић 2013, Александар Јовановић 2016.)

- учешће у комисијама за одбрану мастер радова (Марија Миловановић 2013, Драгана Крстић 2013, Јована Ваљаревић 2013, Бојана Петковић 2014, Миљана Станковић 2014, Душан Ђорђевић 2015, Милена Стошић 2015, Мирко Јовић 2016, Снежана Коцева 2016, Александра Петровић 2017, Александар Димчић 2017, Милица Јанковић 2018, Андријана Стаменковић 2018, Александар Јеремић 2018, Марија Милосављевић 2019, Милош Живковић 2020, Катарина Рилак 2020.)

6. Објављен основни уџбеник за предмет из студијског програма факултета, односно универзитета или научна монографија (са ИСБН бројем) из уже научне области за коју се бира, у периоду од избора у претходно звање,
или
од избора у звање доцент најмање две публикације из категорије уџбеник или монографија из уже научне области за коју се бира при чему најмање једна мора бити основни уџбеник или монографија

Марија Милошевић, *Актуарска математика*, Природно-математички факултет Ниш, 2020. (рукопис прихваћен за штампу као универзитетски уџбеник одлуком Наставно-научног већа Природно-математичког факултета у Нишу број 816/3-01 од 16.9.2020, ИСБН 978-86-6275-130-0)

7. Учешће у међународним или домаћим научним пројектима

[1] **Пројекат:** *Функционална анализа, стохастичка анализа и примене* (174007), Министарство просвете, науке и технолошког развоја Републике Србије, 2011-2019.
[2] **Пројекат:** *Теорија оператора, стохастичка анализа и примене* (144003), Министарство за науку и технолошки развој Републике Србије, 2007-2010.

8. У последњих пет година најмање један рад објављен у часопису који издаје Универзитет у Нишу или факултет Универзитета у Нишу или са SCI листе, у којем је првопотписани аутор

Marija Milošević, *The Euler-Maruyama approximation of solutions to stochastic differential equations with piecewise constant arguments*, Journal of Computational and Applied Mathematics 298 (2016) 1-12. [M21, SCI]
https://ezproxy.nb.rs:2055/science/article/pii/S0377042715005646
https://doi.org/10.1016/j.cam.2015.11.019

9. Најмање 18 поена остварених објављивањем научних радова у часописима категорија М21, М22, М23, у складу са начином бодовања Министарства просвете, науке и технолошког развоја Републике Србије, с тим што бар на једном раду кандидат мора бити првопотписани аутор (навести податке о научним радовима, DOI бројеве)

Од избора у претходно звање остварено је 57 поена објављивањем 7 научних радова:

[1] **Marija Milošević**, *The Euler-Maruyama approximation of solutions to stochastic differential equations with piecewise constant arguments*, Journal of Computational and Applied Mathematics 298 (2016) 1-12. [M21, SCI]
https://ezproxy.nb.rs:2055/science/article/pii/S0377042715005646
https://doi.org/10.1016/j.cam.2015.11.019

[2] **Marija Milošević**, *An explicit analytic approximation of solutions for a class of neutral stochastic differential equations with time-dependent delay based on Taylor expansion*, Applied Mathematics and Computation 274 (2016) 745-761. [M21]
https://ezproxy.nb.rs:2055/science/article/pii/S0096300315015088
https://doi.org/10.1016/j.amc.2015.11.026

[3] Maja Obradović, **Marija Milošević**, *Stability of a class of neutral stochastic differential equations with unbounded delay and Markovian switching and the Euler-Maruyama method*, Journal of Computational and Applied Mathematics 309 (2017) 244-266. [M21]
https://ezproxy.nb.rs:2055/science/article/pii/S0377042716303107
https://doi.org/10.1016/j.cam.2016.06.038

[4] Maja Obradović, **Marija Milošević**, *Almost sure exponential stability of the θ-Euler-Maruyama method for neutral stochastic differential equations with time-dependent delay when $\theta \in [0, 1/2]$*, FILOMAT 31:18 (2017) 5629-5645. [M22]
http://www.doiserbia.nb.rs/img/doi/0354-5180/2017/0354-51801718629O.pdf
https://doi.org/10.2298/FIL1718629O

[5] **Marija Milošević**, *Convergence and almost sure polynomial stability of the backward and forward-backward Euler methods for highly nonlinear pantograph stochastic differential equations*, Mathematics and Computers in Simulation 150 (2018) 25-48. [M21]
https://ezproxy.nb.rs:2055/science/article/pii/S0378475418300466
https://doi.org/10.1016/j.matcom.2018.02.006

[6] Maja Obradović, **Marija Milošević**, *Almost sure exponential stability of the θ-Euler-Maruyama method, when $\theta \in (1/2,1)$ for neutral stochastic differential equations with time-dependent delay under nonlinear growth conditions*, Calcolo (2019) 56:9. [M21a]
https://ezproxy.nb.rs:2078/article/10.1007/s10092-019-0306-7
https://doi.org/10.1007/s10092-019-0306-7

[7] **Marija Milošević**, *Divergence of the backward Euler method for ordinary stochastic differential equations*, Numerical Algorithms 82 (2019) 1395-1407. [M21a]
https://ezproxy.nb.rs:2078/article/10.1007/s11075-019-00661-6
https://doi.org/10.1007/s11075-019-00661-6

9. замена: Један рад се замењује оствареним резултатом категорије М91

10. Најмање шест излагања на међународним или домаћим научним скуповима (копије радова из Зборника радова скупа или потврде организатора скупа да су радови презентовани)

[1] **Marija Milošević**, Svetlana Janković, *An approximation via Taylor series of solutions to functional stochastic differential equations*, XIII International Summer Conference on Probability and Statistics, Sozopol, Bugarska, 2008.
[2] **Marija Milošević**, Svetlana Janković, *Analytic approximations of solutions for stochastic differential delay equations via Taylor series*, XII Serbian Mathematical Congress, Novi Sad, Srbija, 2008.
http://tesla.pmf.ni.ac.rs/people/smak/List_of_Talks12.pdf
[3] **Marija Milošević**, Miljana Jovanović, *An approximate method for stochastic differential equations with time-dependent delay*, MICOM, Ohrid, Makedonija, 2009.
[4] **Marija Milošević**, Miljana Jovanović, *On the approximation of solutions to hybrid pantograph stochastic differential equations*, First Mathematical Conference, Pale, Bosna i Hercegovina, 2011.
[5] **Marija Milošević**, *Numerical solution of highly nonlinear neutral stochastic differential equations with time-dependent delay*, Spring school in probability, Dubrovnik, Hrvatska, 2012.
https://web.math.pmf.unizg.hr/ssp-iuc/poster/Booklet
[6] **Marija Milošević**, *Pantograph stochastic differential equations under nonlinear growth conditions and the Euler-Maruyama approximation*, 13th Serbian Mathematical Congress, Vrnjačka banja, Srbija, 2014.
http://tesla.pmf.ni.ac.rs/people/smak/book_of_abstracts.pdf (str. 59)
[7] **Marija Milošević**, *Analysis of the backward Euler method for a class of neutral stochastic differential equations with time-dependent delay*, Junior female researchers in probability, Berlin, Germany, October 22-23, 2015. http://wias-berlin.de/workshops/index.jsp?lang=1
[8] **Marija Milošević**, *An explicit approximation of solutions for a class of neutral stochastic differential equations with time-dependent delay*, 7th European Congress of Mathematics, Berlin, Germany, July 18-22, 2016. http://www.7ecm.de/program/schedule.html
[9] **Marija Milošević**, Miljana Jovanović, Svetlana Janković, *An application of Taylor expansion in the approximation of solutions to various types of stochastic differential equations*, Mini-symposium "Stochastic Vibrations and Fatigue: Theory and Applications" (predavanje po pozivu), MI SASA Belgrade, Serbia, July 2017.
http://www.mi.sanu.ac.rs/novi_sajt/research/projects/015=FINAL%20SVEN%20----Booklet%20of%20%20Abstracts-Mini%20Symposium%20Stochastic%20Vibrations%20and%20Fatigue%20%20%204%20%20-jul-2017-header_3I-KATICA.pdf (str. 9)
[10] **Marija Milošević**, *Backward Euler and forward-backward Euler methods for pantograph stochastic differential equations under nonlinear growth conditions*, 14th Serbian mathematical congress, Kragujevac, Serbia, May 16-19, 2018.
https://imi.pmf.kg.ac.rs/kongres/assets/Book_of_abstract_SMAK2018.pdf (str. 77)

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11. Најмање десет цитата научних радова кандидата у другим научним радовима објављеним у научним часописима категорија М21, М22, М23 (изузимајући аутоцитате и цитате сарадника, односно коцитате)

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Потпис кандидата: Марија Милошевић

Напомена: Кандидат је дужан да попуњен, одштампан и потписан образац о испуњавању услова за избор у звање наставника достави факултету који је објавио конкурс заједно са осталом документацијом којом доказује да испуњава услове конкурса