

# SUNČICA ZDRAVKOVIĆ

UNIVERSITY OF NOVI SAD – FACULTY OF PHILOSOPHY  
DEPARTMENT OF PSYCHOLOGY

## Work address

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<http://www.ff.uns.ac.rs/sr-lat/fakultet/odseci/psihologija/zaposleni/suncica-zdravkovic>



## Degree

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- **PhD (Visual Perception and Psychophysics)**, Rutgers University, Newark NJ, US, 2002.

Title: An investigation of lightness of an object under two illumination levels.

*Advisor: Alan Gilchrist.*

- **Master (Cognitive Neuroscience)**, Rutgers University, Newark NJ, US, 2000.

Title: Motion and depth pathways interaction.

- **BA (Visual Perception and Psychophysics)**, Psychology Department, Belgrade University 1994.

Title: Depth perception induced by mobile 2D stimuli.

*Advisor: Dejan Todorović.*

## Professional experience and career

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- **Full professor** for Perception, Department of Psychology, Faculty of Philosophy and Faculty of Electrical Engineering, University of Novi Sad, Novi Sad, Serbia, from **2014**.  
Department of Cognitive Science, University of Malta: Affiliate Professor, from 2018.
  - Associate professor for Perception, Department of Psychology, Faculty of Philosophy and Faculty of Electrical Engineering, University of Novi Sad, Novi Sad, Serbia, from 2009.
  - Assistant professor for General Psychology, Department of Psychology in Novi Sad, Serbia, from 2004, and Faculty of Electrical Engineering, from 2007.
  - Consultant, MARBO Company, Belgrade, Serbia, 2004-2006.
  - **Post doctoral training**, Università degli Studi di Trieste, Italy, 2003-2004.
  - Consultant, NEC laboratory, Princeton, US, 1999-2000.
  - Research Director, Agency for media and research “Partner”, Belgrade, Serbia, 1996-1998.
  - Fellow at IS Petnica, Valjevo, Serbia, from 1995.
  - Fellow at the Laboratory for Experimental Psychology, Department of Psychology, Faculty of Philosophy, Belgrade, Serbia, from 1992.

## Grants

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- CEEPUS: NEUROSHARE - Sharing tools and expertise in behavioural neuroscience, 2020
  - Fellow at Ministry of Science grant: Basic Science, grant number 179033, 2011-2015/2019.
  - Fellow at HORIZON 2020: EU project 653748 – CARISMAND - GAP-653748, 2015-2018.
  - Fellow at HORIZON 2020: EU project 653811 – CITYCOP - GAP-653811, 2015-2018.
  - Fellow at Ministry of Science grant: Interdisciplinary Science, grant number III 47020, 2011-2015.
  - Fellow at TEMPUS grant for Visual Mathematics:  
grant number 530394-TEMPUS-1-2012-1-HU-TEMPUS-JPHES, 2012-2014.
  - Fellow at TEMPUS grant for Master program in applied statistics:  
grant number 511140-TEMPUS-1-2010-1-RS-TEMPUS-JPCR, 2010-2013.
  - AFP: Open Society Institute, Returning Scholar Fellowship, from 2009-2012.
  - Research Scientist Grant at SUNY, New York, US, 2008.
  - Fellow at TEMPUS, grant for EU Higher Education Teaching and Training:  
grant number JEP 41071-2006, 2007-2009.
  - Fellow at Ministry of Science grant: Basic Science, grant number D-149039, 2005-2010.

## Awards, scholarships

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- Visiting professor at Swansea University, Wales, UK, 2012-2013.
  - “Ljuba Stojić” award, from Serbian Psychology Association (DPS), 2010.
  - Visiting scientist at Max Planck Institute, Tübingen, Germany, 2004.
  - Young scientist scholarship from Italian Ministry of science (for post doctoral training), 2003.
  - Scholarship from Rutgers University (for doctoral training), 1998-2002.
  - Gifted Young Scientist Fellowship (Institute of Psychology, Belgrade, Serbia), 1994-1995.

## Publications: books, edited volumes

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- Todorović, D., Kostić, A., Zdravković, S., Marković, S. (2014). *40 godina Laboratorije za eksperimentalnu psihologiju*. Filozofski Fakultet, Beograd, Serbia. ISBN: 978-86-7284-144-2
- Filipović-Đurđević, D., Zdravković, S. (2013). *Uvod u kognitivne neuronauke*. Zrenjaninska biblioteka, Zrenjanin, Serbia. ISBN: 978-86-88803-80-9
- Ćirković, M., Mirić, M., Obradović, A., Zdravković, S. (2013). *Petničke Sveske Exploratorium: Vreme*. IS Petnica, Valjevo, Serbia. ISBN: 978-86-7861-050-9
- Zdravković, S. (2011). *Percepcija, 2<sup>nd</sup> edition*. Zrenjaninska biblioteka, Zrenjanin, Serbia. ISBN: 978-86-7284-110-7
- Zdravković, S. (2008). *Percepcija*. Zrenjaninska biblioteka, Zrenjanin, Serbia. ISBN: 978-86-7284-110-7

## Publications: papers, chapters

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- Reid, I., Appleby-Arnold, S., Brockdorff, N., Jakovljević, I., & Zdravković, S. (2020). Developing a model of perceptions of security and insecurity in the context of crime. *Psychiatry, Psychology and Law*. <https://doi.org/10.1080/13218719.2020.1742235>
- Appleby-Arnold, S., Brockdorff, N., Jakovljević, I., & Zdravković, S. (2020). Disaster preparedness and cultural factors: a comparative study in Romania and Malta. *Disasters*. <https://doi.org/10.1111/disa.12433>
- Jonauskaitė, D., Abdel-Khalek, A., Abu-Akel, A., Al-Rasheed, A. S., Antonietti, J. P., Ásgeirsson, Á. G., ... Zdravković, S., & Mohr, C. (2019). The sun is no fun without rain: Physical environments affect how we feel about yellow across 55 countries. *Journal of Environmental Psychology*, 101350. <https://doi.org/10.1016/j.jenvp.2019.101350>
- Thornton, I.M. & Zdravković, S. (2019). Searching for illusory motion.. *Attention, Perception, & Psychophysics: Special Issue for Ann Triesman*. 82(1), 44–62 <https://doi.org/10.3758/s13414-019-01750-3>
- Jakovljević, I., & Zdravković, S. (2018). The color lexicon of Serbian language – a study of dark blue and dark red color categories Part 1: Color-term elicitation task. *Psihologija*. <https://doi.org/10.2298/PSI160521002J>

- <https://scindeks-clanci.ceon.rs/data/pdf/0048-5705/2018/0048-57051802197J.pdf>
- Jakovljević, I., & Zdravković, S. (2018). The color lexicon of Serbian language – a study of dark blue and dark red color categories Part 2: Categorical effects for teal and bordo in the Serbian language. *Psihologija*. <https://doi.org/10.2298/PSI171115018J>  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2018/0048-57051800018J.pdf>
- Appleby-Arnold, S., Jakovljević, I., Zdravković, S., & N. Brockdorff (2018). Applying cultural values to encourage disaster preparedness: lessons from a low-hazard country. *International Journal of Disaster Risk Reduction* <https://doi.org/10.1016/j.ijdrr.2018.04.015>
- Callus, C., Brockdorff, N., Zdravković, S. (2018). Chapter 3. Attitudes Towards Using a Community Policing App. In *Changing Communities, Changing Policing*. Eds. Jeanne Pia Mifsud Bonnici & Joseph Cannataci. NWV Neuer Wissenschaftlicher Verlag, Wien · Graz ISBN 978-3-7083-1215-6
- Marković, S., & Zdravković, S. (2017). Introduction to the special issue on visual aesthetics. *Psihologija*, 50(3), 213-217. <http://www.doiserbia.nb.rs/img/doi/0048-5705/2017/0048-57051703213M.pdf>
- Toscani, M., Zdravković, S., & Gegenfurtner, K. R. (2016). Lightness perception for surfaces moving through different illumination levels. *Journal of Vision*, 16(15), 21-21. <https://doi.org/10.1167/16.15.21>
- Ludajić, T., & Zdravković, S. (2016). Uloga boje i oblika u klasifikaciji i prepoznavanju poznatih vizuelnih objekata (The role of shape and colour in recognition and classification of familiar visual objects). *Primenjena psihologija*. 9(3), 333-352. DOI: 10.19090/pp.2016.1.333-352  
<http://primenjena.psihologija.ff.uns.ac.rs/index.php/pp/article/view/1834>
- Pantić, M., & Zdravković, S. (2016). Vizuelna detekcija statičnog objekta među dinamičnim distraktorima – uticaj tri faktora (Visual Detection Of Static Objects Among Dynamic Distractors). *Primenjena psihologija*. 9(1), 101-118. DOI: 10.19090/pp.2016.1.101-118  
<http://primenjena.psihologija.ff.uns.ac.rs/index.php/pp/article/view/1637>
- Zdravković, S. (2015-2019). Chapters: Ganzfeld, Mach bands. *Encyclopedia of Color Science and Technology*. Springer, New York. DOI 10.1007/978-3-642-27851-8\_347-1, ISBN: 978-3-642-27851-8 (Online). <http://link.springer.com/referencework/10.1007%2F978-3-642-27851-8>
- Economou, E., Zdravković, S., & Gilchrist, A. (2015). Grouping Factors and the Reverse Contrast Illusion. *Perception*. <https://doi.org/10.1177/0301006615607118>
- Hermens, F., & Zdravković, S. (2015). Information extraction from shadowed regions in images: an eye movement study. *Vision Research*, 113, 87-96. <https://doi.org/10.1016/j.visres.2015.05.019>
- Vejnović, D., & Zdravković, S. (2015). Side flankers produce less crowding, but only for letters. *Cognition*, 143, 217-227. <https://doi.org/10.1016/j.cognition.2015.07.003>
- Blanuša, J., & Zdravković, S. (2015). Horizontal-vertical illusion in mental imagery: quantitative evidence. *Frontiers Human Neuroscience*. 9:33. <https://doi.org/10.3389/fnhum.2015.00033>
- Todorović, D., & Zdravković, S. (2014). The roles of image decomposition and edge curvature in the ‘snake’ lightness illusion. *Vision Research*. Vol. 97: 1-15. <http://dx.doi.org/10.1016/j.visres.2014.01.015>
- Milin, P., Zdravković, S. (2013). Bi-dimensional semantic scales: the embodied maps of meanings [Special issue: Cognitive science]. *Universitas Psychologica*, 12(5). DOI: 10.11144/Javeriana.UPSY12-5.bdss  
[http://www.scielo.org.co/scielo.php?script=sci\\_arttext&pid=S1657-92672013000500010](http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S1657-92672013000500010)
- Zdravković, S. (2013). Percepcija vremena. *Petničke sveske*, Istraživačka stanica Petnica, Valjevo, Serbia.
- Barzut, V., Zdravković, S. (2013). Discrimination of faces of the same and other race and gender modulated by familiarity. *Psihologija*, 46(1): 45-59. DOI: 10.2298/PSI1301045B  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2013/0048-57051301045B.pdf>
- Zdravković, S., Economou, E., Gilchrist, A., (2012). Grouping illumination frameworks. *Journal of Experimental Psychology: Human Perception and Performance*. Vol. 38(3): 776-784. <https://doi.org/10.1037/a0026335>
- Ćirović, I., Zdravković, S. (2011). Verbal vs. visual coding in modified mental imagery map exploration task. *Psihologija*, 44(1): 39-60. DOI: 10.2298/PSI1101039C  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2011/0048-57051101039C.pdf>
- Vidaković, V., Zdravković, S. (2010). Influence of depth cues on multiple objects tracking in 3D scene. *Psihologija*, 43(4): 389-409. DOI: 10.2298/PSI1004389V  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2010/0048-57051004389V.pdf>
- Vejnović, D., Milin, P., Zdravković, S. (2010). Effects of proficiency and age of language acquisition on working memory performance in bilinguals. *Psihologija*, 43(3): 219-232. DOI: 10.2298/PSI1003219V  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2010/0048-57051003219V.pdf>
- Vejnović, D., Milin, P., Zdravković, S. (2010). Bi-alphabetical naming in Serbian: evidence from masked priming. *Proceedings of the 5th Annual SEERC, DSC2010*, 700-708.

- Popović, M., Zdravković, S. (2009). Can deployment of attention be strategically controlled? *Psihologija*. Vol. 42, 1, 67-79. DOI: 10.2298/PSI0901067P  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2009/0048-57050901067P.pdf>
- Vidaković, V., Zdravković, S. (2009). Colour influences identification of the moving objects more than shape. *Psihologija*. Vol. 42, 1: 79-95. DOI: 10.2298/PSI0901079V  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2009/0048-57050901079V.pdf>
- Zdravković, S. (2008). Lightness constancy: object identity and temporal integration. *Psihologija*. Vol. 41, 1:19-37. DOI: 10.2298/PSI0801005Z  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2008/0048-57050801005Z.pdf>
- Zdravković, S. (2007). Efekat boje pozadine i osvetljenja na opaženu svetlinu. *Psihologija*. Vol. 40, 4: 543-565.  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2007/0048-57050704543Z.pdf>
- Economou, E., Zdravković, S., Gilchrist, A. (2007). Anchoring versus spatial filtering accounts of simultaneous lightness contrast. *Journal of Vision*, 7(12): 2, 1-15. <https://doi.org/10.1167/7.12.2>
- Stevanov, Z., Zdravković, S. (2007). Prepoznavanje identiteta na osnovu pojedinih delova lica. *Psihologija*, 40, 1, (37-57). DOI: 10.2298/PSI0701037S  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2007/0048-57050701037S.pdf>
- Stojanović, R., Zdravković, S. (2007). Mentalna eksploracija distanci na mapama i u realnom prostoru. *Psihologija*, 40, 1, (93-111). DOI: 10.2298/PSI0701093S  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2007/0048-57050701093S.pdf>
- Stevanov, J., Zdravković, S. (2006). Rotsnake iluzija: faktori intenziteta iluzornog pokreta. *Empirijska Istraživanja u Psihologiji 2006: Zbornik Instituta za Psihologiju*. Filozofski fakultet, Beograd, 285-293.
- Zdravković, S., Economou, E., Gilchrist, A. (2006). Lightness of an object under two illumination levels. *Perception*. Vol. 35 (1185-1201). <https://doi.org/10.1068/p5446>
- Zdravković, S., Milin, P. (2006). The underlying distribution of lightness matches. *Fechner's days Proceedings* Vol. 22 (321-326). <http://www.ispsychophysics.org/fd/index.php/proceedings/article/view/378/370>
- Gavrilov-Jerković, V., Franceško, M., Kodzopeljić, J., Smederevac, S., Zdravković, S., Mihić, V., Trogrlić, A., Sakotić-Kurbalija, J. (2005). Evropski standardi za reformu visokog obrazovanja i novi plan studija psihologije. *Ličnost u višekulturnom društvu*, 5, (27-34).
- Zdravković, S. (2003). Opažanje dubine u pokretnim dvodimenzionalnim stimulusima. *Psihologija*, 36, 3, (289-313). DOI:10.2298/PSI0303289Z  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2003/0048-57050303289Z.pdf>
- Zdravković, S., Gilchrist, A. (2002). Grouping based on illumination levels. *Fechner's days Proceedings*, (1-5).
- Zdravković, S. (2002). Analysis of depth percepts induced by mobile two-dimensional stimuli. *Psihologija*, 35, 3-4, (225-245). DOI: 10.2298/PSI0203225Z  
<http://www.doiserbia.nb.rs/img/doi/0048-5705/2002/0048-57050203225Z.pdf>

## Invited talks, keynotes

- Zdravković, S. (2019). What eye movements can tell us about the brain. Malta Neuroscience Network, Malta.  
<http://mnn.mt>
- Zdravković, S. (2018). Attention and Illusory Motion. University of Padova, Italy.
- Zdravković, S. (2015). Kanizsa figures in lightness and brightness context. *Symposium: Visual Context and Lightness Perception*. The Trieste Meeting on Perception and Cognition. Università degli Studi di Trieste, Trieste, Italy.  
<http://www2.units.it/bernardis/symposiumVCLP2015.html>  
<http://www.openstarts.units.it/dspace/handle/10077/11879>
- Zdravković, S. (2015). Spatial And Temporal Effects In Lightness Constancy. Latvijas Universitāte, Riga, Latvia.
- Zdravković, S. (2013). Relevant perceptual conditions and cognitive factors for lightness judgment. Justus-Liebig Univerzitet, Giessen, Germany.  
<http://www.uni-giessen.de/cms/faculties/f06/psy/departments-1/generalpsychology/guestbook>
- Zdravković, S. (2013). Cognitive processes influence perception in the domain of lightness and illumination. University of Aberdeen, Scotland, UK. <https://www.abdn.ac.uk/psychology/events/2275/>
- Zdravković, S. (2012). Effects of cognitive processes on perception of lightness and illumination. Sheffield Hallam University, England, UK.
- Zdravković, S. (2012). Lightness perception: effects of illumination. Swansea University, Swansea, Wales, UK.

- Zdravković, S. (2012). Opažanje boje, svetline i osvetljenja. University of Priština, Kosovska Mitrovica, Kosovo.
- Zdravković, S. (2011). Returning Scholar. AFP OSI Annual Conference, New York, US.
- Zdravković, S. (2010). Opažanje svetline pri različitim nivoima osvetljenja. Institute for Biological Research "Siniša Stanković", University of Belgrade Belgrade, Serbia.
- Zdravković, S. Milin. P. (2009). Experimental psychology in Novi Sad. Conference Keynote: Current Trends in Psychology, Faculty of Philosophy, Novi Sad.
- Zdravković, S. (2009). Multiple illumination levels grouping, lightness and colour. National University of Ireland, Galway, Ireland.
- Zdravković, S. (2008). Effects of multiple illumination levels on lightness perception. SUNY, The State University of New York, New York, US.
- Zdravković, S. (2005). Lightness and multiple illumination levels. Keynote, 3<sup>rd</sup> Helmholtz Retreat, Bergen, the Netherlands. <http://www.fss.uu.nl/psn/web/people/projects/HHdag2005/hhdag2005.html>
- Zdravković, S. (2003). Lightness of an Object under Two Illumination levels. Max Planck Institute, Tübingen, Germany.

## Conference presentations: talks

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- Zdravković, S., Thornton, I.M. (2019). Separable mechanisms for the processing of real and illusory motion? ECVP, Leuven, Belgium. In *Perception*.1 Oliver's Yard, 55 City Road, London Ecl1 1sp, England: Sage Publications Ltd. <https://doi.org/10.1177/0301006619863862>
- Jakovljević, I., & Zdravković S. (2019). Color naming in Serbian language. Current trends in Psychology. Book of abstract, 139-140. Novi Sad, Serbia.
- Jonauskaitė, D. et al (2019). How joyful is yellow? Geographic, climatological but not seasonal factors predict yellow-joy association in 55 countries. The Socio-Cultural Shaping of Emotion *Preconference* at ISRE, Amsterdam, Netherlands. <https://www.isre2019.org/program/pre-conferences/socio-cultural-shaping>
- Zdravković, S., Vujanović, M. (2019). Perception and Action: Common Representation in Visual Artists. *XXV Empirijska istraživanja u psihologiji*, Belgrade, Serbia.
- Zdravković, S. (2018). Effects of articulation on lightness constancy. *Symposium* at ECVP, Trieste, Italy. In *Perception*.1 Oliver's Yard, 55 City Road, London Ecl1 1sp, England: Sage Publications Ltd. [https://docs.wixstatic.com/ugd/4e2087\\_1b4ee086bbd94d6f8b81265466488656.pdf](https://docs.wixstatic.com/ugd/4e2087_1b4ee086bbd94d6f8b81265466488656.pdf)
- Nedimović, P., Zdravković, S. (2018). Lightness contrast and assimilation: testing the hypotheses of spatial frequency, reflectance difference, and perceived depth. *XXIV Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://empirijskaistrazivanja.org/wp-content/uploads/2018/03/2018-program-EIP.pdf>
- Nedimović, P., Zdravković, S. (2017). Temporal effects of illumination on lightness. *XXIII Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://empirijskaistrazivanja.org/wp-content/uploads/2017/03/PROGRAM-EIP17.pdf>
- Čmiljanović, M., Zdravković, S. (2017). Experiencing uncanny valley effect depending on level of social anxiety. *XXIII Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://empirijskaistrazivanja.org/wp-content/uploads/2017/03/PROGRAM-EIP17.pdf>
- Nedimović, P., Zdravković, S. (2017). Lightness contrast and assimilation: Pheripherall mechanisms revisited. *STuP*, Faculty of Philosophy, Novi Sad, Serbia. <http://stup.ff.uns.ac.rs/knjigarezime.pdf>
- Čmiljanović, M., Zdravković, S. (2017). Uncanny valley: Likability vs. social distance. *STuP*, Faculty of Philosophy, Novi Sad, Serbia. <http://stup.ff.uns.ac.rs/knjigarezime.pdf>
- Jakovljević, I., Zdravković, S. (2017). Colour discrimination strategies depend on memory load. *STuP*, Faculty of Philosophy, Novi Sad, Serbia. <http://stup.ff.uns.ac.rs/knjigarezime.pdf>
- Nedimović, P., Zdravković, S. (2016). Lightness of an object that moves through different illumination levels *Alpe-Adria & Rijeka Days of Experimental Psychology - REPSI*, Rijeka, Croatia. <http://aapc16.com/web/wp-content/uploads/2016/02/AAPC-2016-Preliminary-Program.pdf>
- Thornton, I., Zdravković, S. (2016). Does illusory motion attract attention? *Alpe-Adria & Rijeka Days of Experimental Psychology - REPSI*, Rijeka, Croatia. <http://aapc16.com/web/wp-content/uploads/2016/02/AAPC-2016-Preliminary-Program.pdf>
- Zdravković, S., Hermens, F. (2015). Illumination layout of the scene influences visual sampling. *Perception* (Supplement Vol. 44; 62a), ECVP, Liverpool, UK. <http://eprints.lincoln.ac.uk/18420/>

- Cmiljanović, M., Tree, J.J., Zdravković, S. (2015). Screening for prosopagnosia in student population. STuP, Faculty of Philosophy, Novi Sad, Serbia. [http://stup.ff.uns.ac.rs/STuP\\_2015\\_program.pdf](http://stup.ff.uns.ac.rs/STuP_2015_program.pdf)
- Zdravković, S. (2015). Eye movements in scene processing. STuP, Faculty of Philosophy, Novi Sad, Serbia. [http://stup.ff.uns.ac.rs/STuP\\_2015\\_program.pdf](http://stup.ff.uns.ac.rs/STuP_2015_program.pdf)
- Živković, J., Nedimović, P., Zdravković, S. (2015). Kako osvetljenje i oblik stimulusa utiču na opažanje svetline. *XXI Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://www.empirijskaistraganja.org/knjigarezimea.aspx>
- Samac, N., Zdravković, S., Mihić, Lj. (2015). Pristrasno opažanje specifičnih odlika pretećih facijalnih ekspresija kod socijalne anksioznosti. *XXI Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://www.empirijskaistraganja.org/knjigarezimea.aspx>
- Jakovljević, I., Zdravković, S. (2015). Strupov efekat u zadatku perceptivne diskriminacije boja. *XXI Empirijska istraživanja u psihologiji*, Belgrade, Serbia. <http://www.empirijskaistraganja.org/knjigarezimea.aspx>
- Samac, N., Zdravković, S., Mihić, Lj. (2015). Afraid of anger: Biased unconscious processing of angry facial expression in social anxiety. *Rome Workshop on Experimental Psychopathology*, Rome, Italy. <http://www.openstarts.units.it/dspace/bitstream/10077/10508/1/T05.pdf>
- Zdravković, S., Hermens, F. (2014). Shadows Affect Eye Movements in Visual Judgment Tasks. TSPC Proceedings (T05; 44-46), *Trieste Symposium on Perception and Cognition*, Trieste, Italy. <http://www.openstarts.units.it/dspace/bitstream/10077/10508/1/T05.pdf>
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- Zdravković, S., Gilchrist, A. (1999). The role of illuminance borders in lightness: information or grouping? *ARVO -The Association for Research in Vision and Ophthalmology*, Florida, US.
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- Zdravković, S. (1996). Estimation of 3-D figures induced by 2-D mobile constellations of dots. *Perception* (Supplement Vol. 25; 61b), ECVF, Strasbourg, France.  
<http://www.perceptionweb.com/abstract.cgi?id=v96p0111>

## Membership

- 
- Fechner's Society for Psychophysics, EU, from 2002.
  - Vision Science Society, US, from 2000.
  - Association for Research in Vision and Ophthalmology, US, 1998- 2001.

## Organization of conferences

- 
- Chair of Scientific committee of 4<sup>th</sup> STuP, Current Trends in Psychology, 2017.
  - Member of Scientific committee of 3<sup>rd</sup> STuP / Current Trends in Psychology, 2015.
  - Organizer of 37<sup>th</sup> European Conference for Visual Perception, 2014.
  - Organizer of 3<sup>rd</sup> Balkan Vision Meeting, 2012.
  - Member of Scientific committee of Empirical Research in Psychology, since 2010.
  - Member of Scientific committee of Balkan Vision Meeting, since 2008.
  - Member of Scientific committee of European Conference for Visual Perception, since 2005.

## Other activities

- 
- Reviewing for: Journal of Vision, Vision Research; Perception; Attention, Perception, & Psychophysics; Journal of Experimental Psychology; Serbian Ministry of Science; Polish National Science Centre (Narodowe Centrum Nauki), Psihologija, Primenjena Psihologija, Godišnjak Filozofskog Fakulteta, Perception Science,

Frontiers in Neuroscience, Frontiers in Psychology, Journal for ReAttach Therapy and Developmental Diversities .

- Ethic committee representative, UNS & Serbian Psychology Association (DPS).
- Deputy editor of journal "Psihologija", 2010 -2018.
- Member of KoEd group for interdisciplinary training of gifted students, 2007-2015.
- Editorial board journal "Psihologija" and guest editor, 2006-2010.
- Member of Scientific council, IS Petnica, since 2006.

## Popularization of science

Zdravković, S. (2019). Razgovor o knjizi Milana Ćirkovića: Šta je SETI? Zadužbina Ilije M. Kolarca <http://www.kolarac.rs/zvucni-zapisi/sta-je-seti-i-zasto-nam-je-potreban/>

Zdravković, S. (2015). Opažanje boja. *Naziv ciklusa: Odabrane teme iz psihologije čulnog opažanja*. Muzej nauke i tehnike, Belgrade, Serbia.

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Zdravković, S. (2014). Vizuelne Iluzije. *Slavik Jablan Exhibition*, Belgrade, Serbia.

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Zdravković, S., Takači, Dj. (2013). European Summer School for Visual Mathematics and Education, Eger, Hungary. <https://www.youtube.com/watch?v=b-yTupEjHQk>

Zdravković, S. (2013). Čudo neviđeno, još jednom. *KoEd*, Petnica, Serbia.

<http://koed.petnica.rs/index.php/sadrzaj/crtice-iz-nauke/190-cudo-nevideno-jos-jednom>

Zdravković, S. (2012). Bez bola. *KoEd*, Petnica, Serbia.

<http://koed.petnica.rs/index.php/sadrzaj/crtice-iz-nauke/177-bez-bola-2>

Zdravković, S. (2011). VID: Opažanje boja i osvetljenja, *TED x Belgrade: Dare to Share*, Belgrade, Serbia. <https://www.youtube.com/watch?v=AMmn9THeNS0>

Zdravković, S. (2010). Kako da lažete na sto načina, *Festival nauke – Science Fair*, Belgrade, Serbia. <http://www.festivalnauke.org/2010/rs/category-lectures/023.html>

Zdravković, S. (2009). Boje i svetlost, *Festival nauke – Science Fair*, Belgrade, Serbia. <http://www.festivalnauke.org/2009/rs/lectures/2-15.html>

Ćirković, M., Zdravković, S., Ković, M., Obradović, A., Mandić, M. (2009). *Petnički Bilten*, vol. 24, 55-57. Petnica, Valjevo, Serbia.

Zdravković, S. (2008). Neuronu u zemlji iza ogledala. *B92, Nauka*, Belgrade, Serbia. [http://www.b92.net/zivot/nauka.php?nav\\_id=318579](http://www.b92.net/zivot/nauka.php?nav_id=318579)

Zdravković, S. (2008). Neuronauka u Srbiji. *Radio Beograd 2, Solaris*, Belgrade, Serbia.

Zdravković, S. (2007). Opažanje boje pod različitim osvetljenjima. *Petničke sveske*, Istraživačka stanica Petnica, Valjevo, Serbia.

Zdravković, S. (2004). Vid: jedno moćno čulo. *SciTech*, Belgrade, Serbia. <http://scitech.sgi.co.rs/html/004/00407.html>

## Mentoring

- Mentoring at PhD level / PhD theses: Predrag Nedimović (mentoring from 2018); Milica Stojišić (co-mentoring from 2017); Ivana Jakovljević (2018): Karakteristike i mehanizam uticaja jezika u procesu diskriminacije boja / Characteristics and mechanisms of language influence on colour discrimination; Ivana Jurić (2018): Model za kontrolu površinske uniformnosti digitalnih otisaka / Model for surface uniformity of digital print; Dušan Vejnović (2014): Vanfovealno opažanje slova: specifičnosti pregomilavanja / Parafoveal Peripheral identification of letters: crowding.

- Mentoring at master level / MA theses: Rebekah Mifsud (2018): Evaluating Fear of Crime Through Multimodal Physiological Measures; Predrag Nedimović (2017): Asimilacija i kontrast svetline: periferni i/ili centralni mehanizmi/Assimilation and contrast: peripheral or central mechanisms; Marija Cmijanović (2017): Dolina jeze: prosopagnozija, socijalna anksioznost i socijalna distanca/Uncanny Valley: prosopagnosia, social anxiety and social distance; Tomislav Ludajić (2015): Uloga boje i oblika u klasifikaciji i prepoznavanju hrane / Roll of colour and shape in visual recognition of food; Žarko Milojević (2013): Rezolucija boje simboličkih i analognih mentalnih reprezentacija poznatih objekata / Resolution of colors for symbolic and analog mental representations of familiar objects; Zorica Stevanov (2013): Holistički i parcijalni pristup u prepoznavanju ljudskih lica / Parts vs. whole in face perception; Jelena Blanuša (2011): Percepcija i mentalna vizuelizacija: mehanizmi i polne razlike / Perception and mental visualization: mechanisms and sex differences; Ivana Ćirović (2011): Uticaj osvetljenja, distance i identiteta na opažanje svetline / Effect of illumination, distance and identity on lightness; Vesna Barzut (2011): Faktor poznatosti lica modulira ORB / Famous faces and Own race bias; Marjena Popović (2010): Ograničenja modela Bulovih mapa pri vizuelnoj pretrazi / Some constrains of Boolean map theory of visual attention; Vesna Vidaković (2009): Uticaj znakova za opažanje dubine na uspeh u praćenju pokretnih objekata u 3D prostoru / Effect of depth cue on MOT; Dušan Vejnović (2008): Efekti fluentnosti i doba usvajanja na efikasnost radne memorije u drugom jeziku / Second language modulation of working memory.
- Mentoring at graduating level / BA theses: Tamara Boškić (2020) Uloga motivacionog intenziteta u objašnjenju efekata pozitivnih afekata na opseg pažnje/ Role of motivation intensity in positive effect on attention span; Mirjana Pantić (2013) Vizuelna detekcija statičnog objekta među dinamičnim distraktorima – uticaj tri faktora / Visual detection of a static object among mobile distractors; Marjena Popović (2008): Promena efikasnosti kao faktor u odabiru strategije aktivne ili pasivne pažnje / Efficiency as a strategy factor in attention; Vesna Vidaković (2008): Efekat boje i oblika na uspešnost praćenja skupova pokretnih meta / Effect of colour and shape on MOT; Jasmina Stevanov (2006): Rotsnake iluzija: Faktori intenziteta iluzornog pokreta / Rotsnake illusion: new factors; Radmila Stojanović (2006): Kognitivna relevantnost efekta simboličke distance / Some cognitive factors in symbolic distance effect.
- Committee member for PhD theses: Marina Stošić (from 2015) Zavisnost efekta pukog izlaganja od vizuelne osetljivosti u kontekstu teorije fluentnosti procesiranja; Vesna Barzut (from 2018) Odnos procesiranja identiteta i facijalne ekspresije/ Processing of identity and facial expressions; Jelena Blanuša (2018): Uticaj formalnih, afektivnih i kontekstualnih činilaca na estetsku preferenciju obliha objekata / Effect of formal, affectiv and contextual characteristics on esthetic preference of object shape; Ivan Stojilović (2016): Individualni i situacioni faktori subjektivnog doživljaja umetničkih slika / Individual and situational factors od subjective experience art paintings; Oliver Tošković (2008): Anizotropija vizuelnog prostora / Anisotropy of visual space.
- Committee member for master theses: Jessica Bezzina (2019): Investigating Differences in Moral Judgement between the Armed Forces of Malta and the General Public; Charlotte Brun (2018): Does the human form provide an advantage for directing search and improving retention of information during web-based search?; Clarisse Schembri Frendo (2018): Measuring the cognitive and emotional components of empathy: a multimodal experimental study using thermography and self-report assessments; Tracey Zammit (2017): Location memory in visual search. The multi-item localization (MILO) task: a tool for investigation; Isidora Gatarić (2016): Kognitivna obrada imenica sa višeznačnim derivacionim sufiksima: studija očnih pokreta /Kognitive processing of nouns: an eye movement study; Marko Nešković (2015): Eksperimentalna provjera fenomena naglašavanja u kontekstu hipoteze o slijedu odlika i naziva; Milan Jordanov(2015): Uloga kontekstualnih znakova u računarskom modelovanju fenomena naglašavanja; Jelena Radanović (2011): Analiza morfo-semantičkih odlika imenica srpskog jezika / Analysis of morph-semantic features of nouns in Serbian language; Olivera Ilić (2011): Šta stoji u osnovi fenomena živosti / Animacy effect revisited; Tamara Jovanović (2008): Ispitivanje prirode alomorfije / Effects of alomorphy; Bojan Gligorijević (2008): Distinkcija kognitivnih celina u zavisnosti od modaliteta i kompleksnosti stimulusa / Cognitive grouping depends on modality and stimuli complexity; Oliver Tošković (2004): Oblik modela perceptivnog prostora / Shape of space assessed with vision.
- Committee member for graduating level / BA theses: Marina Ćirić (2016): Efekat konteksta na procenu konkretnosti reči / Effect of context on evaluation of word concreteness; Jelena Živanović (2009): Efekat kongruentnosti između čulnog modaliteta koji pojam poseduje i modaliteta kroz koji se prima informacija o pojmu / Modality congruency for words and concepts; Tamara Jovanović (2007): Ispitivanje prirode alomorfije / Effects of alomorphy; Marija Pižurica (2006): Utvrđivanje efekta veličine susjedstva reči u

srpskom jeziku / Word neighbourhood effect in Serbian language; Jelena Lisac (2005): Uticaj asocijativnog konteksta na obradu reči u srpskom jeziku / Associative context influences word processing.

## Teaching

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- Courses thought at PhD level: Lightness, Experimental Methods.
  - Courses thought at MA level: Visual perception, General Psychology.
  - Courses thought at Undergraduate level: Perception, Cognitive neuroscience, Learning and Memory, Cognitive psychology, Higher Cognitive functions, Statistics.
- Student's evaluation of teaching skills: 9.78 (1-10 scale, 10 max).

## Research interest

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### - *Perception of Colors and Light*

Color has a special status within visual perception. Namely, all other properties observed visually (i.e. size and shape of an object, motion or spatial layout of the scene) could also be perceived through other senses. For example, the shape of an object can easily be learned through touch. Color, however, can only be perceived through vision.

In order to study colors systematically, every shade is considered through three dimensions. *Lightness* is a variation from black to white and it represents all achromatic or gray shades. *Hue* refers to the different wavelengths leaving us with impressions of red, yellow or blue. And finally, there is *saturation*, referring to pronouncedness of a certain hue.

### - *Lightness and Multiple Illumination Levels*

Although color of an object does not change when we move it from an intense into a dim illumination, our perception of that color is still influenced by the amount of light. Hence, our percept cannot be predicted only by the object physical color (i.e. surface reflectance) but amount of illumination has to be taken into account. In physics this product of color and illumination is called luminance. Unfortunately, luminance dose not predict our percept either!

Within lightness perception we study this very problem, and a set of anchoring rules is offered to account for human perception of achromatic colors. As a rule lightness was studied on objects under a single illumination level. In such conditions some of the main issues were constancy, contrast and articulation. Novel research is concerned with more complex conditions: multiple illumination levels. Impact of differences in illumination levels was investigated both in spatial domain and temporal domain, also within a visual scene or on a single object.

### - *Lightness Constancy and Object Identity*

Constancy is ability to observe an object in its standard or familiar form and not as it appears under ever-changing viewing conditions. Hence, colors do not seem to change in appearance when observed under different illumination. Strawberry looks very much the same in 1) a bright sunlight in a garden, 2) a much weaker artificial light in a house or 3) a deep dark shade. Although, we are not aware of differences between these conditions, and the red of the fruit seems the same to us, the perceptual differences were measured in psychophysical experiments.

Lightness constancy is significantly enhanced when the object is presented in a well-articulated scene (i.e. one that contains a number of objects and wide range of shades). Research shows that the number of objects as well as their spatial layout directly affect amount of constancy.

Constancy is further influenced by the identity of an object. Perceived lightness tends to be a function of the known shade of the object and not a shade presented to the observer.

## Bio Sketch

- Sunčica Zdravković studied psychology at the University of Belgrade, Serbia. She did her graduation diploma work (1994) and master level program (1997) under mentorship of Dejan Todorović, working on depth-from-motion perception. She continued graduate school in Alan Gilchrist's lab at Rutgers University, Newark, New Jersey, US, where she obtained MA in Cognitive Neuroscience (2000) – depth and motion visual pathways (with Ben Bly) and PhD in Psychophysics (2002) – lightness and multiple illumination levels (with Alan Gilchrist). She was post-doc in Tiziano Agostini's lab in Trieste, Italy (2003). In 2004 she became assistant professor at the University of Novi Sad, Serbia, teaching cognitive psychology and since 2014 she is a full professor teaching perception and cognitive neuroscience. She also teaches in school of Electrical Engineering, school of Industrial Design and in Interdisciplinary master program for applied statistics. She is director of laboratory of Experimental Psychology in Novi Sad. Her research is partially carried out in the Laboratory of experimental psychology in Belgrade and she collaborates with colleagues from North America, Europe and Asia.

Research interest: lightness in complex visual scenes, spatial and temporal illumination change, effect of higher cognitive functions on color perception, identity and lightness constancy.

