

Curriculum vitae



Name Ursula Schwarz-Nemec
Academic title Assoc.Prof.Priv.-Doz.DDr.
Date of birth 24.04.1988
Place of birth Vienna, Austria
Citizenship Austrian
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Professional experience

Since 11/2019 Associate professor, Division of Neuroradiology and Musculoskeletal Radiology, Department of Biomedical Imaging and Image-Guided Therapy (Medical University of Vienna)

Since 01/2020 Senior attending, Division of Neuroradiology and Musculoskeletal Radiology, Department of Biomedical Imaging and Image-Guided Therapy (Medical University of Vienna)

Since 01/2019 Board certified radiologist, Division of Neuroradiology and Musculoskeletal Radiology, Department of Biomedical

Imaging and Image-Guided Therapy (Medical University of Vienna)

10/2012 – 12/2018 Resident in Radiology, Department of Biomedical Imaging and Image-Guided Therapy (Medical University of Vienna)

04/2018 – 06/2018 Clinical rotation, Chirurgische Abteilung, Hanusch Krankenhaus Wien

07/2015 – 12/2015 Clinical rotation, Department of Internal Medicine II (Medical University of Vienna)

School/academic education

2019 Associate Professor of Radiology (Medical University of Vienna)

10/2018 Habilitation, (Medical University of Vienna)

10/2018 European Diploma in Radiology, European Society of Radiology

09/2018 Austrian board exam in radiology

2014 – 2020 N790 doctoral program of applied medical science – thematic programme: bones and joints regeneration (Medical University of Vienna)

2010 – 2012 Research fellow, Department of Biomedical Imaging and Image-Guided Therapy (Medical University of Vienna)

2006 – 2012 N202 medical studies (Medical University of Vienna)

1998 – 2006 Gymnasium, Wiener Neustadt, Austria

Academic experience

2020 Doctoral Thesis: ‚Vertebral bone marrow and endplate assessment on MR imaging for the differentiation of Modic type 1 endplate changes and infectious spondylodiscitis‘

2018 Habilitation: ‚Prenatal Magnetic Resonance Imaging of the Fetal Musculoskeletal System‘

06/2016 – 07/2017 Research Fellowship, Division for Cardiothoracic Imaging, Department of Radiology, Beth Israel Deaconess Medical

Center, Boston, MA, USA. (Supervisor Prof. Dr. A. Bankier).

Certificates

ÖAK-Fortbildungsdiplom, 2019
ÖAK- Zertifikat Mammadiagnostik, 2019
European Diploma in Radiology, European Society of Radiology, 2018
Basic Certificate in Fetal MRI – International Society of Ultrasound in Obstetrics and Gynecology, 2017
Certificate in Applied Biostatistics – Harvard Catalyst Education Program, 2017
Medizinische Lehre Wien, Zertifikatsprogramm – Medizinische Universität Wien, 2016

Memberships, review activities, session moderator, presentations

Österreichische Röntgengesellschaft, European Society of Head and Neck Radiology, European Society of Radiology
European Society of Neuroradiology
International Society of Ultrasound in Obstetrics and Gynecology

Memberships

Review activities

European Radiology, European Journal of Radiology, PLOS One, Otology and Neurootology

Session moderator

European Congress of Radiology, Paediatric musculoskeletal and oncologic imaging session (2019, Vienna)
Congres Național de Medicină Perinatală (2013, Cluj)

Presentations (selection)

Schwarz-Nemec U, Staging von Kopf-Hals-Tumoren,
WRS 2020 Webinar

Schwarz-Nemec U, Speicheldrüse, Fit für den Facharzt
Kurs, ÖRG, 2020 Webinar

Schwarz-Nemec U, MRT-Untersuchungen des Kopfes bei
liegendem aktiven Hörimplantat. Nemec U, Fortbildung:

Schwarz-Nemec U, Czerny C. „HNO trifft Radiologie“,
Klinikum Wels-Grieskirchen 2020

Schwarz-Nemec U, Czerny C Bildgebung des
Temporomandibulargelenks. Intensivkurs
Muskuloskelettalintensivkurs, Hamburg 2019

Schwarz-Nemec U, Nemec SF, Brugger P, Prayer D.
Human long bone development in intrauterine growth
restriction: in vivo analysis of the distal femoral
epimetaphysis on prenatal MR imaging. ISUOG 2018,
Vienna.

Nemec U, Heidinger B, Sokas C, Chu L, Eisenberg R.
Thoracic Cut-off Values For CT assessment Of
Sarcopenia. ICFSR 2017, Barcelona.

Nemec U, Nemec SF, Brugger PC, Weber M, Bartsch B,
Bettelheim D, Gruber M, Prayer D. Normal mandibular
growth and diagnosis of micrognathia at prenatal MRI. YSA
2016. Vienna.

Nemec U, Brugger PC, Kasprian G, Prayer D. Was wir
intrauterine über das Skelett sagen können, ohne dabei
den Kopf zu verlieren. 15. Jahrestagung der AG
Kinderradiologie der ÖRG, 2014 Klagenfurt.

Nemec U, Nemec SF, Weber M, Brugger PC, Prayer D.
Fetal MRI: techniques and protocols. Congres Național de
Medicină Perinatală 2013, Cluj.

Nemec U, Nemec SF, Weber M, Brugger PC, Prayer
D. Skeletal Development on Fetal Magnetic Resonance
Imaging. Congres Național de Medicină Perinatală 2013,
Cluj.

Nemec U, Nemec SF, Weber M, Brugger PC, Prayer D.
The Mandible at Prenatal MRI. ASNR 2012, New York.
Femoral Length Assessment on Prenatal MRI. ECR 2012,
Vienna.

Book Chapters

Pugash D, Kasprian G, Brugger PC, **Nemec U**, Prayer D. MRI of Normal Brain Development. In: Diagnostic Imaging: Fetal MRI. Editor: Prayer D. Springer, 2011.

Prayer D, Brugger PC, Kasprian G, **Nemec U**, Milos R, Mitter C. Cerebral Malformation. In: Diagnostic Imaging: Fetal MRI. Editor: Prayer D. Springer, 2011.

Nemec SF, Brugger PC, Kasprian G, **Nemec U**, Graham Jr. JM, Prayer D. The Skeleton and Musculature. In: Diagnostic Imaging: Fetal MRI. Editor: Prayer D. Springer, 2011.

Letter to the editor

Letter to the editor regarding Worldwide 1st MED-EL Mi1200 SYNCHRONY cochlear implant magnet removal for MRI image artifact reduction by Wieser et al., **Schwarz-Nemec U**, Dahm V, Arnoldner C, Otolaryngology Case Reports, 2019

Publications

Dahm V, **Schwarz-Nemec U**, Auinger AB, Arnoldner MAA, Kaider A, Riss D, Czerny C, Arnoldner C. Titanium and Platinum–Fluoroplastic Stapes Protheses Visualization on Cone Beam Computed Tomography and High-Resolution Computed Tomography. Life 2021.

Auinger AB, Dahm V, Stanisz I, **Schwarz-Nemec U**, Arnoldner C. The challenging diagnosis and follow-up of skull base osteomyelitis in clinical practice. Eur Arch Otorhinolaryngol. 2021 Jan 28

Liu DT, **Schwarz-Nemec U**, Renner B, Mueller CA, Besser G. Radiological Markers of the Olfactory Cleft: Relations to Unilateral Orthonasal and Retronasal Olfactory Function. Diagnostics (Basel). 2020 Nov 23;10(11)

Schwarz-Nemec U, Friedrich KM, Stihsen C, Schwarz FK, Trattnig S, Weber M, Grohs JG, Nemec SF. Vertebral Bone Marrow and Endplate Assessment on MR Imaging for the Differentiation of Modic Type 1 Endplate Changes and Infectious Spondylodiscitis. J Clin Med. 2020 Mar 18;9(3):826

Schwarz-Nemec U, Friedrich KM, Prayer D, Trattnig S, Schwarz FK, Weber M, Bettelheim D, Grohs JG, Nemec SF. Lumbar Intervertebral Disc Degeneration as a Common Incidental Finding in Young Pregnant Women as Observed on Prenatal Magnetic Resonance Imaging. J Womens Health (Larchmt). 2020 May;29(5):713-720.

Schwarz-Nemec U, Friedrich KM, Arnoldner MA, Schwarz FK, Weber M, Trattnig S, Grohs JG, Nemec SF. When an incidental MRI finding becomes a clinical issue: Posterior lumbar subcutaneous edema in degenerative, inflammatory, and infectious conditions of the lumbar spine. Wien Klin Wochenschr. 2020 Jan;132(1-2):27-34.

Soman S, Liu Z, Kim G, **Nemec U**, Holdsworth SJ, Main K, Lee B, Kolakowsky-Hayner S, Selim M, Furst AJ, Massaband P, Yesavage J, Adamson MM, Spincemaille P, Moseley M, Wang Y. Brain Injury Lesion Imaging Using Preconditioned Quantitative Susceptibility Mapping without Skull Stripping. AJNR Am J Neuroradiol. 2018 Apr;39(4):648-653.

Heidinger BH, Anderson KR, **Nemec U**, Costa DB, Gangadharan SP, VanderLaan PA, Bankier AA. Morphologic characteristics of pulmonary adenocarcinomas manifesting as pure ground-glass nodules on CT. *J Thorac Dis.* 2017 Dec;9(12):E1148-E1150.

Nemec U, Heidinger BH, Anderson KR, Westmore MS, VanderLaan PA, Bankier AA. Software-based risk stratification of pulmonary adenocarcinomas manifesting as pure ground glass nodules on computed tomography. *Eur Radiol.* 2018 Jan;28(1):235-242.

Soman S, Bregni JA, Bilgic B, **Nemec U**, Fan A, Liu Z, Barry RL, Du J, Main K, Yesavage J, Adamson MM, Moseley M, Wang Y. Susceptibility-Based Neuroimaging: Standard Methods, Clinical Applications, and Future Directions. *Curr Radiol Rep.* 2017 Mar;5(3):11

Heidinger BH, **Nemec U**, Anderson KR, Costa DB, Gangadharan SP, VanderLaan PA, Bankier AA. "Rounding" the Size of Pulmonary Nodules: Impact of Rounding Methods on Nodule Management, as Defined by the 2017 Fleischner Society Guidelines. *Acad Radiol.* 2017 Nov;24(11):1422-1427

Heidinger BH, Anderson KR, **Nemec U**, Costa DB, Gangadharan SP, VanderLaan PA, Bankier AA. Lung Adenocarcinoma Manifesting as Pure Ground-Glass Nodules: Correlating CT Size, Volume, Density, and Roundness with Histopathologic Invasion and Size. *J Thorac Oncol.* 2017 Aug;12(8):1288-1298

Nemec U, Heidinger B, Sokas C, Chu L, Eisenberg RL. Diagnosing Sarcopenia on Thoracic Computed Tomography: Quantitative Assessment of Skeletal Muscle Mass in Patients Undergoing

Transcatheter Aortic Valve Replacement. Acad Radiol. 2017
Sep;24(9):1154-1161

Derntl B, Krajnik J, Kollndorfer K, Bijak M, **Nemec U**, Leithner K,
Prayer D, Schöpf V. Stress matters! Psychophysiological and
emotional loadings of pregnant women undergoing fetal magnetic
resonance imaging. BMC Pregnancy Childbirth. 2015 Feb 13;15:2

Nemec U, Nemec SF, Brugger PC, Weber M, Bartsch B,
Bettelheim D, Gruber M, Prayer D. Normal mandibular growth and
diagnosis of micrognathia at prenatal MRI. Prenat Diagn. 2015
Feb;35(2):108-16

Nemec U, Nemec SF, Weber M, Brugger PC, Kasprian G,
Bettelheim D, Rimoin DL, Lachman RS, Malinge G, Prayer D.
Human long bone development in vivo: analysis of the distal
femoral epimetaphysis on MR images of fetuses. Radiology. 2013
May;267(2):570-80

Mailath-Pokorny M, Kasprian G, Mitter C, Schöpf V, **Nemec U**,
Prayer D. Magnetic resonance methods in fetal neurology. Semin
Fetal Neonatal Med. 2012 Oct;17(5):278-84. Review

Nemec U, Nemec SF, Kasprian G, Brugger PC, Bettelheim D,
Wadhawan I, Kolb A, Graham JM Jr, Rimoin DL, Prayer D. Clubfeet
and associated abnormalities on fetal magnetic resonance imaging.
Prenat Diagn. 2012 Sep;32(9):822-8

Mailath-Pokorny M, Klein K, Worda C, Weber M, Brugger PC,
Czerny C, **Nemec U**, Prayer D. Maxillary dental arch biometry:
assessment with fetal MR imaging. Prenat Diagn. 2012
Jun;32(6):530-5.

Nemec SF, **Nemec U**, Brugger PC, Bettelheim D, Weber M, Graham JM Jr, Rimoin DL, Prayer D. Male genital abnormalities in intrauterine growth restriction. *Prenat Diagn.* 2012 May;32(5):427-31

Nemec SF, **Nemec U**, Brugger PC, Bettelheim D, Rotmensch S, Graham JM Jr, Rimoin DL, Prayer D. MR imaging of the fetal musculoskeletal system. *Prenat Diagn.* 2012 Mar;32(3):205-13.

Nemec U, Nemec SF, Krakow D, Brugger PC, Malinge G, Graham JM Jr, Rimoin DL, Prayer D. The skeleton and musculature on foetal MRI. *Insights Imaging.* 2011 Jun;2(3):309-318 Review

Nemec U, Nemec SF, Novotny C, Weber M, Czerny C, Krestan CR. Quantitative evaluation of contrast-enhanced ultrasound after intravenous administration of a microbubble contrast agent for differentiation of benign and malignant thyroid nodules: assessment of diagnostic accuracy. *Eur Radiol.* 2012 Jun;22(6):1357-65.

Nemec U, Oberleitner G, Nemec SF, Gruber M, Weber M, Czerny C, Krestan CR. MRI versus radiography of acromioclavicular joint dislocation. *AJR Am J Roentgenol.* 2011 Oct;197(4):968-73.

Nemec SF, Brugger PC, **Nemec U**, Bettelheim D, Kasprian G, Amann G, Rimoin DL, Graham JM Jr, Prayer D. Situs anomalies on prenatal MRI. *Eur J Radiol.* 2012 Apr;81(4):e495-501.

Krestan CR, **Nemec U**, Nemec S. *Semin Musculoskelet Radiol.* Imaging of insufficiency fractures. 2011 Jul;15(3):198-207. Review

Nemec SF, Kasprian G, Brugger PC, Bettelheim D, **Nemec U**, Krestan CR, Rotmensch S, Rimoin DL, Graham JM Jr, Prayer D. Abnormalities of the penis in utero--hypospadias on fetal MRI. *J Perinat Med.* 2011 Jul;39(4):451-6.

Welsh RC, **Nemec U**, Thomason ME. Fetal magnetic resonance imaging at 3.0 T. *Top Magn Reson Imaging*. 2011 Jun;22(3):119-31. Review

Nemec SF, **Nemec U**, Brugger PC, Wadhawan I, Prayer D. Skeletal development on fetal magnetic resonance imaging. *Top Magn Reson Imaging*. 2011 Jun;22(3):101-6. Review

Nemec U, Nemec SF, Bettelheim D, Brugger PC, Horcher E, Schöpf V, Graham JM Jr, Rimoin DL, Weber M, Prayer D. Ovarian cysts on prenatal MRI. *Eur J Radiol*. 2012 Aug;81(8):1937-44

Nemec SF, **Nemec U**, Weber M, Rotmensch S, Brugger PC, Kasprian G, Krestan CR, Rimoin DL, Graham JM Jr, Prayer D. Female external genitalia on fetal magnetic resonance imaging. *Ultrasound Obstet Gynecol*. 2011 Dec;38(6):695-700

Nemec SF, **Nemec U**, Weber M, Brugger PC, Bettelheim D, Rotmensch S, Krestan CR, Rimoin DL, Graham JM Jr, Prayer D. Penile biometry on prenatal magnetic resonance imaging. *Ultrasound Obstet Gynecol*. 2012 Mar;39(3):330-5

Nemec SF, Höftberger R, **Nemec U**, Bettelheim D, Brugger PC, Kasprian G, Amann G, Rotmensch S, Graham JM Jr, Rimoin DL, Prayer D. Fetal akinesia and associated abnormalities on prenatal MRI. *Prenat Diagn*. 2011 May;31(5):484-90.

Nemec SF, **Nemec U**, Weber M, Kasprian G, Brugger PC, Krestan CR, Rotmensch S, Rimoin DL, Graham JM Jr, Prayer D. Male sexual development in utero: testicular descent on prenatal magnetic resonance imaging. *Ultrasound Obstet Gynecol*. 2011 Dec;38(6):688-94

Nemec SF, Horcher E, Kasprian G, Brugger PC, Bettelheim D, Amann G, **Nemec U**, Rotmensch S, Rimoin DL, Graham JM Jr, Prayer D. Tumor disease and associated congenital abnormalities on prenatal MRI. Eur J Radiol. 2012 Feb;81(2):e115-22

Nemec SF, Kasprian G, Brugger PC, Bettelheim D, Amann G, **Nemec U**, Rotmensch S, Graham JM Jr, Rimoin DL, Lachman RS, Prayer D. Abnormalities of the upper extremities on fetal magnetic resonance imaging. Ultrasound Obstet Gynecol. 2011 Nov;38(5):559-67.

Nemec SF, Kasprian G, **Nemec U**, Czerny C. [Cranial nerves - spectrum of inflammatory and tumorous changes]. Radiologe. 2009 Jul;49(7):608-13. Review