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## **EDUCATION**

2003-2007	B.S. in Psychology (Summa cum Laude), University of Louisville, Louisville, KY
2007-2011	M.D. School of Medicine (cum Laude), University of Louisville, Louisville, KY
2011-2012	Internship – Internal Medicine, University of Louisville Hospital, Louisville, KY
2012-2016	Radiology Residency (Chief Resident March 2014-2016), University of Louisville Hospital, Louisville, KY
2016-2017	Abdominal Imaging Fellowship, Mallinckrodt Institute of Radiology, St. Louis, MO

## **ACADEMIC APPOINTMENTS**

2017	Instructor Department of Radiology University of Louisville Hospital Louisville, KY
2017-2025	Assistant Professor Department of Radiology University of Louisville Hospital Louisville, KY
2025-current	Associate Professor Department of Radiology University of Louisville Hospital Louisville, KY

## **OTHER POSITIONS AND EMPLOYMENT**

1999-2003	Specialist (E4), United States Army, Enlisted with Honorable Discharge.
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## **CERTIFICATION AND LICENSURE**

2017	Diplomate, American Board of Radiology
2016	Missouri State Medical License (inactive)
2017	Kentucky State Medical License (active)
2023	Colorado State Medical License (active)

## **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

2011	Alpha Omega Alpha, senior year election
2011	Radiological Society of North America
2011	American Roentgen Ray Society
2012	American College of Radiology
2017	American Society of Emergency Radiology

## COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

- 2017-Present UofL Radiology Residency Program Evaluation Committee (member)  
2017-Present UofL Radiology Residency Clinical Competence Committee (member)

## EDUCATIONAL ACTIVITIES

Director, Radiology Medical Student Clerkship (2020-2022)  
Diagnostic radiology residency didactic lectures (instructor)  
Emergency medicine residency didactic lectures (instructor)  
Emergency radiology fellow's conference (instructor)  
Annual radiology board review (instructor)  
Clinical supervision and instruction of radiology residents

## CLINICAL ACTIVITIES

Clinical Radiologist, Emergency Radiology and Cardiac Imaging Sections: Supervise the performance of and interpret radiologic examinations at University of Louisville Hospital, UofL Health affiliated facilities, and the Robley Rex VA Medical Center.

## ABSTRACTS AND PRESENTATIONS

### POSTERS

1. The effect of subjective occluding contours on binocular rivalry perception. **van Bogaert EA**, He ZJ, Ooi TL. University of Louisville Undergraduate Research Day. Louisville, KY. 2006
2. Illusory boundary contours affect binocular rivalry and depth perception. **van Bogaert EA**, He ZJ, Ooi TL. Vision Sciences Society Annual Meeting. Sarasota, FL. 2006
3. A new image analysis approach for automatic classification of dyslexic brains. **van Bogaert EA**, Casanova MF, El-Baz A, Switala AE. Research! Louisville. Louisville, KY. 2007
4. Minicolumnar pathology in the brains of autistic patients. **van Bogaert EA**, Casanova MF, El-Baz A, Switala AE. Research! Louisville. Louisville, KY. 2007
5. Predicting presacral fat quantification and correlation of CT scan measurements with BMI and age. Agrawal A, Abayazeed A, Seow A, Tolentino J, **van Bogaert EA**, Rose T, Francis SL, Deveneau NE, Azadi A. American Urogynecologic Society (AUGS)/International Urogynecological Association(IUGA) Washington, DC. 2014
6. Retained surgical foreign bodies: Cadaveric radiographic and CT correlation. **van Bogaert EA**, Holmes J, Arauz AR, Schulz BJ. Radiological Society of North America (RSNA). Chicago, IL. 2015

## PUBLICATIONS

### PEER-REVIEWED JOURNAL ARTICLES

1. **van Bogaert EA**, He ZJ, Ooi TL. "The monocular Boundary contour mechanism in binocular surface representation and suppression." *Perception*, 37, 1197-1215, 2008
2. Casanova MF, El-Baz A, **van Bogaert EA**, Narahari P, Trippe J. "Minicolumnar width: comparison between supragranular and infragranular layers." *Journal of Neuroscience Methods*, 184, 19-24, 2009

3. Casanova MF, El-Baz A, **van Bogaert EA**, Narahari P, Switala A. "A topographic study of minicolumnar core width by lamina comparison between autistic subjects and controls: possible minicolumnar disruption due to an anatomical element in-common to multiple laminae." *Brain Pathology*, 20, 451-458, 2010
4. Agrawal A, Abayazeed A, Fancis SL, Tolentino J, Ostergard DR, Seow A, **van Bogaert EA**, et al. "Correlation of computed tomography measured presacral thickness with body mass index." *Surgical Technology International*, 26, 164-8, 2015
5. Agrawal, Abayazeed A, Francis SLL, Tolention J, Ostergard DR, Seow A, **van Bogaert EA**, et al. "Correlation of patient age with CT-measured aorta-sacral promontory distance." *International Urogynecology Journal*, 26, 6, 887-91, 2015
6. Youssef BE, Alksas A, Shalaby A, Mahmoud AH, **van Bogaert, E**, Alghamdi NS, Neubacher A, Contractor S, Ghazal M, Elmaghraby AS, El-Baz A "Integrated Deep Learning and Stochastic Models for Accurate Segmentation of Lung Nodules from Computed Tomography Images: A Novel Framework." *IEEE Access*, 11, 99807–99821, 2023
7. Farahat IS, Sharafeldeen A, Ghazal M, Alghamdi NS, Mahmoud A, Connelly J, **van Bogaert E**, Zia H, Tahtouh T, Aladrousy W, Tolba AE, Elmougy S, El-Baz A "An AI-based novel system for predicting respiratory support in COVID-19 patients through CT imaging analysis." *Scientific Reports*, 14, article 851, 2024
8. Abdelhalim I, Badawy MA, Abou El-Ghar M, Ghazal M, Contractor S, **van Bogaert E**, Gondim D, Silva S, Khalifa F, El-Baz A. "Multi-branch CNNFormer: a novel framework for predicting prostate cancer response to hormonal therapy." *Biomed Eng Online*, 23, 131, 2024

## CONFERENCE PROCEEDINGS

1. El-Baz A, Casanova MF, Gimel'farb G, Switala AS, **van Bogaert EA**, McCracken R. "Dyslexia diagnostics by 3D texture analysis of cerebral white matter gyrifications." Proc. Of International Conference on Pattern Recognition, Tampa, FL, January 2008
2. El-Baz A, Nitzken M, **van Bogaert EA**, Gimel'farb G, Falk R, Abo El-Ghar M. "A novel shape-based diagnostic approach for early diagnosis of lung nodules." Proc. Of IEEE International Symposium on Biomedical Imaging, Chicago, IL, March 2011
3. Accurate Segmentation for Pathological Lung Based on Integration of 3D Appearance and Surface Models. Sharafeldeen A, Alksas A, Ghazal M, Yaghi M, Khelifi A, Mahmoud A, Contractor S, **van Bogaert E**, El-Baz A. IEEE International Conference on Image Processing (ICIP), Kuala Lumpur, Malaysia, October 2023
4. A Novel Technique of Pulmonary Nodules Auto Segmentation Using Modified Convolutional Neural Networks. Youssef B, Alksas A, Shalaby A, Mahmoud A, **van Bogaert E**, Contractor S, Ghazal M, Elmaghraby A, El-Baz A. (2023, September). 2023 IEEE 20th International Symposium on Biomedical Imaging (ISBI), Cartagena, Colombia, September 2023
5. Advancing personalized prostate cancer therapy through hormonal treatment: Promising findings. Abdelhalim I, Alksas A, Balaha HM, Badaway MA, Abou El-Ghar M, Alghamdi NS, Ghazal M, Contractor SG, **van Bogaert EA**, Dibe Gondim D, Silva SR, El-Baz AS. (2024, May). IEEE Engineers International Symposium on Biomedical Imaging (ISBI), Athens, Greece, May 2024

## REVIEW ARTICLES

1. Shalata AT, Shehata M, **van Bogaert E**, Ali KM, Alksas A, Mahmoud A, El-Gendy EM, Mohamed MA, Giridharan GA, Contractor S, El-Baz A "Predicting Recurrence of Non-Muscle-Invasive Bladder Cancer: Current Techniques and Future Trends." *Cancers*, 14, article 20, 2022

2. Fahmy D, Alksas A, Elnakib A, Mahmoud A, Kandil H, Khalil A, Ghazal M, **van Bogaert E**, Contractor S, El-Baz A "The Role of Radiomics and AI Technologies in the Segmentation, Detection, and Management of Hepatocellular Carcinoma." *Cancers*, 14, article 24, 2022
3. Shehata M, Abouelkheir RT, Gayhart, M, **van Bogaert, E**, Abou El-Ghar M, Dwyer AC, Ouseph R, Yousaf J, Ghazal M, Contractor S, El-Baz A "Role of AI and Radiomic Markers in Early Diagnosis of Renal Cancer and Clinical Outcome Prediction: A Brief Review." *Cancers*, 15, 2835, 2023
4. Farg H, Elnakib A, Gebreil A, Alksas A, **van Bogaert E**, Mahmoud A, Khalil A, Ghazal M, Abou El-Ghar M, El-Baz A, Contractor S. "Diagnostic value of PET imaging in clinically unresponsive patients." *Br J Radiol*, 97, 283-291, 2024

#### CASE REPORTS

1. Johnson P, Anderson R, Gamble C, **van Bogaert E**, Joshi J. Traumatic aortic injury from pellet gun: A case report. *Radiology Case Reports*, 18, 1368–1371, 2023.
2. Lim R, Gordon B, Joshi, J, **van Bogaert EA**. "Lymphangioleiomyomatosis." *ACR Case-in-point*. May 2023
3. Ramakrishnan V, Townsend R, **van Bogaert E**. "Acute Myocardial Infarction." *ACR Case-in-point*. December 2022

#### BOOK CHAPTERS

1. El-Baz A, Nitzken M, Gimel'farb G, **van Bogaert E**, Falk R, Abo El-Ghar M, Suri J. "3D Shape Analysis Using Spherical Harmonics for Early Assessment of Detected Lung Nodules." In: El-Baz A, Suri J, Eds. *Handbook of Lung Imaging and Computer Aided Diagnosis*. Boca Raton, FL: Taylor & Francis, 2012