Edgar Guevara Codina

PhD in Biomedical Engineering

+52-222-577-2173

edgar.guevara@gmail.com



https://sites.google.com/site/edgarguevara/

Full CV

Research statement		Research im	pact
Over 10 years of research experience in non-	31 peer-reviewed papers		1 book
invasive medical diagnosis, using optical	7 grants as technical leader		3 copyright registries
imaging (fNIRS), functional connectivity &	\$17.3 million secured in grant fund		2 BEng thesis (advised)
spectroscopy	52 conference presentations		4 BEng thesis + 1 Master + 1
specificscopy	258 citations (Sc		PhD theses (in process)
Academic Experience	(00	•••••••••••••	
Research Fellow, CONACYT-UASLP-CIACYT		0	ctober 2016 – Current position
• Line of research: biomedical optics			
 1 graduate course, 5 undergraduate courses and 3 workshops 			
Associate Professor, Universidad de las Américas Puebla			ugust 2014 – September 2016
 13 different undergraduate courses 			
Postdoctoral fellow, École Polytechnique de Montréal			February – July 2014
Research project: Real-time detection of epileptic seizures using fNIRS			
			January 2011 – May 2012
Principles of Medical Imaging			
Teaching Assistant , <i>Research Institute of Optical Communication – UASLP</i> June - July 2007			
Electromagnetic Theory			June July 2007
Student to Student Tutor , Technological Institute de San Luis Potosí			January – June 2002
Calculus and physics lessons			
Education			
Ph.D. in Biomedical Engineering, École Polytechnique de Montréal, 3.67/4.00 score November 2013			
Dissertation: <u>"Functional Connectivity of the Rodent Brain Using Optical Imaging"</u> .			
 Professional License <u>09641885</u> 			
M.Sc. in Applied Science, Universidad Autónoma de San Luis Potosí, 9.65/10 score September 2008			
Thesis: <u>"A novel non-invasive approach for glucose measurement"</u> .			
Professional License <u>6251081</u>			
B.S. Electronic Engineering , Instituto Tecnológico de San Luis Potosí, 92.4/100 score June 2003			
• Top student in class			
• Internship project: <u>"PC based automation of a monochromator"</u> .			
Professional License <u>4243697</u>			
Awards and Honors			
Member of the National System of Researchers (SNI Level I) January 2021 – 2023			
German Federal Ministry DAAD scholarship			May – December 2018
Member of the National System of Researchers (SNI Level I)			January 2015 – 2017
Special mention of the jury for PhD dissertation			November 2013
CONACYT PhD scholarship			anuary 2009 – December 2012
SEP Complementary Scholarship			ctober 2010 – December 2012
CONACYT Masters scholarship			
Electronic Engineering top student in class of 1998 – 2003 (92.4/100)			September 2006 – August 2008 June 2003
Skills Languages			
Design of optical imaging systems	Span	ish: Native speaker	
Machine Learning Algorithms English: Proficient: TOE		sh: Proficient: TOEFL 6	57, IELTS 8.0, CEFR C1
Extensive programming experience (MATLAB, C, Python) French: Proficient: DELF B2			