

Luis Pellegrin

PH.D. IN COMPUTER SCIENCE · VISION & LANGUAGE
PROFESSOR-RESEARCHER AT THE FACULTY OF SCIENCES OF THE
UNIVERSIDAD AUTÓNOMA DE BAJA CALIFORNIA (UABC)

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“Carpe diem quam minimum credula postero.”

My research interests are on computer vision and natural language processing interactions and applications. Including and not exclusively tasks related to image annotation, information retrieval, text mining, as well as approaches based on deep learning focused on representation, indexing, feature extraction and multimodal data analysis.

Education

Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE)

Tonantzintla, Puebla, México

PH.D. IN COMPUTER SCIENCE

2013 - 2017

- Thesis: Unsupervised Image Annotation as Multimodal Query Expansion.
Supervisors: Hugo Jair Escalante Ph.D., and Manuel Montes-y-Gómez Ph.D.

Universidad Veracruzana (UV)

Xalapa, Veracruz, México

MASTER IN ARTIFICIAL INTELLIGENCE

2006 - 2008

- Thesis: *Coevolución para un Sistema Presa-Depredador*. Supervisor: Fernando Montes Ph.D.

Instituto Tecnológico Superior de Cajeme (ITESCA)

Cd. Obregón, Sonora, México

B. E. IN COMPUTER SCIENCE

2001 - 2006

- Thesis: *Desarrollo de una Interfaz para la Comunicación entre un Sistema Experto y un Sistema Multiagente de Cuidado de Cultivos en Tiempo Real No Crítico*. Special mention. Supervisor: Fernando Orduña Ph.D.

Communication Skills

Spanish, native speaker

English, oral = good, written = good

TOELF ITP 550

Italian, oral = good, written = fair

CILS B2

French, oral = fair, written = fair

Diploma 400 hrs.

Memberships

2019-2021 **SNI**, National System of Researchers, Candidate.

México

2015- **RedICA**, Thematic Network in Applied Computational Intelligence (*Red Temática en Inteligencia Computacional Aplicada*).

México

2014- **RTTL**, Thematic Network in Language Technologies (*Red Temática en Tecnologías del Lenguaje*)

México

Work experience

Universidad Autónoma de Baja California (UABC)

Ensenada, México

FULL TIME PROFESSOR-RESEARCHER

Aug. 2018 -

Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE)

San Andrés Cholula, México

POSTDOCTORAL RESEARCHER

Nov. 2017 - Jul. 2018

- Technical responsible: Dr. José Martínez Carranza.
- Research topics: depth estimation from a single aerial image; 3D aerial reconstruction.
- Applied approach: deep learning.

Universidad Veracruzana

Xalapa, Veracruz

SOFTWARE ENGINEER

Dec. 2009 - Jun. 2013

- Software development of exam for self-assessment for the college entrance. AEXI (*Autoevaluación para el Examen de Ingreso*), from 2010 to 2016 editions.
- Software development of query system for university entrance profile. SCOPI (*Consulta del Perfil de Ingreso*), from 2010 to 2012 editions.
- Other softwares: query of the 911 statistics (CINVESTAV-UV, 2010), research study of students' free time use (*Tiempo Libre* software), test and diagnosis of results CONAFE from 2007 to 2009 editions.

Consortio Peredo S.A. de C.V.

Xalapa, Veracruz

ANALYST AND SOFTWARE DEVELOPER

Mar. 2009 - Jan. 2010

Teaching

Aug-Dec, 2018	Computer Graphics , Undergraduate students	Professor
Aug-Dec, 2018	Project Management , Undergraduate students	Professor
Aug-Dec, 2018	Computer Organization , Undergraduate students	Professor with Evelio Martínez
Jan-May, 2018	Introduction to Robotics , Postgraduate students	Professor assistant
May-Jun, 2017	Programming and Data Structure , Postgraduate students	Preparatory course

Projects

Jan. 2019 - now	Exploiting transfer learning for vision & language , Researcher	Responsible
Sep. 2018 - now	"Identificación de cyberbullying" , Researcher	Collaborator
Nov. 2017 - Jul. 2018	"Sistema de captura y procesamiento de video y fotografía aérea para drones y aviones ligeros" , Postdoctorate researcher	Collaborator
May. 2014 - Oct. 2017	Clasificación y recuperación de imágenes mediante técnicas de minería de textos , Ph.D. student	Collaborator

Public Communication

Oct 16, 2018	Talk: En la búsqueda del algoritmo maestro , Universidad Autónoma de Baja California (UABC)	Undergraduate Students
May 29, 2018	Talk: Towards Depth Estimation in a Single Aerial Image , Centro de Investigación e Innovación en Tecnologías de la Información y Comunicación (INFOTEC)	Research seminar
Oct. 26, 2017	Talk: RedICA Text-Image Matching (RICATIM) Challenge , Universidad Autónoma de Chihuahua (UACH)	Postgraduate Students
Oct. 25, 2017	Talk: Unsupervised Image Annotation as Multimodal Query Expansion , Universidad Autónoma de Chihuahua (UACH)	Jornadas de Otoño

Publications

JOURNALS

- 2018 **A Visual Approach for Age and Gender Identification on Twitter**, Miguel A. Álvarez-Carmona, Luis Pellegrin, Manuel Montes-y-Gómez, Fernando Sánchez-Vega, Hugo Jair Escalante, A. Pastor López-Monroy, Luis Villaseñor-Pineda, and Esaú Villatoro-Tello. *Journal of Intelligent & Fuzzy Systems (JIFS)*, vol. 34, no. 5, pp. 3133-3145. *Published*
- 2017 **Local and Global Approaches for Unsupervised Image Annotation**, Luis Pellegrin, Hugo Jair Escalante, Manuel Montes-y-Gómez, and Fabio A. González. *Multimedia Tools and Applications* 76(15), pp. 16389-16414. *Published*

INTERNATIONAL CONFERENCES

- 2017 **Overview of the 2017 RedICA Text-Image Matching (RICATIM) Challenge**, Luis Pellegrin, Hugo Jair Escalante, Alicia Morales, Eduardo F. Morales, and Carlos A. Reyes-García. In: 2017 IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC 2017), special session: Vision and Language. *Published*
- 2017 **A Flexible Framework for the Evaluation of Unsupervised Image Annotation**, Luis Pellegrin, Hugo Jair Escalante, Manuel Montes-y-Gómez, Mauricio Villegas, and Fabio A. González. In: 22nd Iberoamerican Congress on Pattern Recognition. *Published*
- 2016 **A Two-Step Retrieval Method for Image Captioning**, Luis Pellegrin, Jorge Vanegas, John Arevalo, Viviana Beltrán, Hugo Jair Escalante, Manuel Montes-y-Gómez, and Fabio A. González. In: Proceedings of the Seventh Conference and Labs of the Evaluation Forum (CLEF) 2016, Springer International Publishing, LNCS Vol. 9822, pp. 150-161. *Published*
- 2014 **Evaluating Term-Expansion for Unsupervised Image Annotation**, Luis Pellegrin, Hugo Jair Escalante, and Manuel Montes-y-Gómez. In: Proceedings of the 13th Mexican International Conference on Artificial Intelligence (MICAI) 2014, Springer International Publishing, LNCS Vol. 8856, pp. 151-162. *Published*

INTERNATIONAL WORKSHOPS

- 2016 **INAOE's participation at ImageCLEF 2016: Text Illustration Task**, [Luis Pellegrin](#), A. Pastor López-Monroy, Hugo Jair Escalante, and Manuel Montes-y-Gómez. In: CLEF16 Working Notes. *Published*
- 2015 **INAOE-UNAL at ImageCLEF 2015: Scalable Concept Image Annotation**, [Luis Pellegrin](#), Jorge Vanegas, John Arevalo, Viviana Beltrán, Hugo Jair Escalante, Manuel Montes-y-Gómez, and Fabio A. González. In: CLEF15 Working Notes. *Published*

Program Committees

- 2018 **IEEE Access**, Journal *Reviewer*
- 2018 **ROPEC**, Special session: Vision and Language *Reviewer*
- 2018 **Multimedia Information Processing for Personality & Social Networks Analysis Workshop**, @ICPR *Reviewer*
- 2018 > **IEEE Latin America Transactions**, Journal *Reviewer*
- 2018 > **International Joint Conference on Neural Networks**, IEEE World Congress on Computational Intelligence *Reviewer*
- 2017 **Journal of Intelligent & Fuzzy Systems: Special Issue applied to Language & Knowledge Engineering**, Journal *Reviewer*
- 2017 **IEEE Transactions on Pattern Analysis and Machine Intelligence**, Journal *Reviewer*
- 2017 > **Information Processing & Management**, Journal *Reviewer*
- 2017 **RedICA: Image-Text Matching (RICATIM)**, Academic challenge *Organizer*
- 2017 **ChaLearn Looking at People, Action, and Emotion Recognition Workshop and Competitions**, Large Scale Multimodal Gesture Recognition and Real versus Fake expressed emotions @ICCV *Reviewer*
- 2017 **ChaLearn Looking at People, Explainable Computer Vision Workshop and Job Screening Competition**, @CVPR *Reviewer*
- 2017 **ChaLearn Looking at People, Workshop on Multimedia Challenges Beyond Visual Analysis**, Joint Workshop and Contest on Multimedia Challenges Beyond Visual Analysis @ICPR16 *Reviewer*
- 2017 > **ROPEC**, Special session: Evolutionary Computation *Reviewer*
- 2016 **ChaLearn Looking at People Workshop on Automatic Personality Analysis and First Impression Challenge**, @ECCV *Reviewer*
- 2016 **8o Congreso Mexicano de Inteligencia Artificial**, COMIA 2016 *Session Moderator*