PhD Adriana Meza Soria (she, her)

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EDUCATION

 Ph.D. in Software Engineering 	2017–2022
University of California, Irvine	
Dissertation: "Understanding How Information Flows in and out of Regularly School	duled Software
Maintenance Design Meetings: a Case Study"	
https://escholarship.org/uc/item/283097z2 GPA: 3.98 (0-4 scale)	
M.S in Engineering (Summa Cum Laude)	2016
CETYS University, Tijuana, Mexico	2010
GPA: 100 (0-100 scale)	
B.S. in Computational Systems Engineering	2013
Technological Institute of Tijuana (ITT), Tijuana, Mexico	
GPA: 96.39 (0-100 scale)	
PROFESSIONAL EXPERIENCE	
MIT-IBM Watson AI Lab, AI Models Engineering team, Research AI Engineer	2022-present
Research at the intersection of Generative AI and Software Engineering	
 MIT-IBM Watson AI Lab, APT Research Intern 	Summer 2021
Design and prototyping.	2242 2247
Grupo Tress Internacional (GTI), Senior Software Engineer Find year ambigation design and development ambigation medianization development.	2013–2017
End-user application design and development, application modernization, development. IWAI Metal Mexico, IT Assistant	2012–2013
Internal software development and IT management activities	2012-2013
TELNOR, Intern	2011–2012
Early design and prototyping	
TEACHING EXPERIENCE	
 Professor 	
UC Irvine CA, U.S.A	Summer 2020
Programming in Java as a second language (undergraduate)	
 Teaching Assistant 	Fall 2018–Winter 2021
UC Irvine CA, U.S.A	
■ Professor	2016–2017
CETYS University Tijuana, Mexico Professor	2014–2017
Autonomous University of Baja California (UABC) Tijuana, Mexico	2014-2017
ACADEMIC SERVICE	
 International Conference on Cooperative and Human Aspects of Software Engine 	eering 2024
Short-paper track co-chair	2024
 International Conference on Cooperative and Human Aspects of Software Engine 	eering 2023
Proceedings chair, Program committee member	
 Designing Workshop 	2024
Program committee member	
 Mining Software Repositories 	2021
Program committee shadow member	
HONORS AND AWARDS	
 Recipient of Miguel Velez Scholarship (3rd) 	2022
- Lating Freelings and Ashieversont Avend	2021

2021

Latino Excellence and Achievement Award

•	Grace Hopper Celebration Scholar	2020
•	Best product idea & CodePath favorite	2020
•	Recipient of Miguel Velez Scholarship (2 nd)	2019
•	Recipient of Rosalva Gallardo Valencia Graduate Award	2019
•	Second place at AMIA Design Challenge	2018
•	Recipient of Miguel Velez Scholarship (1st)	2017

ACTIVE RESEARCH AREAS

- Software Engineering & Generative AI: Synthetic Data, LLM Agents
- Human Aspects of Software Engineering: Qualitative Studies (Thematic Analysis, User studies, Case Studies)

PUBLICATIONS

- Mayank Mishra, Matt Stallone, Gaoyuan Zhang, Yikang Shen, Aditya Prasad, Adriana Meza Soria, Michele Merler, Parameswaran Selvam, Saptha Surendran, Shivdeep Singh, Manish Sethi, Xuan-Hong Dang, Pengyuan Li, Kun-Lung Wu, Syed Zawad, Andrew Coleman, Matthew White, Mark Lewis, Raju Pavuluri, Yan Koyfman, Boris Lublinsky, Maximilien de Bayser, Ibrahim Abdelaziz, Kinjal Basu, Mayank Agarwal, Yi Zhou, Chris Johnson, Aanchal Goyal, Hima Patel, Yousaf Shah, Petros Zerfos, Heiko Ludwig, Asim Munawar, Maxwell Crouse, Pavan Kapanipathi, Shweta Salaria, Bob Calio, Sophia Wen, Seetharami Seelam, Brian Belgodere, Carlos Fonseca, Amith Singhee, Nirmit Desai, David D. Cox, Ruchir Puri, Rameswar Panda. 2024. Granite Code Models: A Family of Open Foundation Models for Code Intelligence. https://arxiv.org/abs/2405.04324
- Zhen Guo, Adriana Meza Soria, Wei Sun, Yikang Shen, Rameswar Panda. 2024. API Pack: A Massive Multilingual Dataset for API Call Generation. https://arxiv.org/abs/2402.09615
- Adriana Meza Soria, Taylor Lopez, Elizabeth Seero, Negin Mashhadi, Emily Evans, Janet Burge, and André Van der Hoek. 2024. Characterizing Software Maintenance Meetings: Information Shared, Discussion Outcomes, and Information Captured. In Proceedings of the IEEE/ACM 46th International Conference on Software Engineering (ICSE '24). Association for Computing Machinery, New York, NY, USA, Article 56, 1–13. https://doi.org/10.1145/3597503.3623330
- L. Seero, J. Burge, A. M. Soria and A. Van Der Hoek, "Exploring a Research Agenda for Design Knowledge Capture in Meetings," 2023 IEEE/ACM 16th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE), Melbourne, Australia, 2023, pp. 37-42, doi: 10.1109/CHASE58964.2023.00013
- Adriana Meza Soria. 2022. Understanding How Information Flows In and Out of Regularly Scheduled Software Maintenance Design Meetings: A Case Study. (Dissertation). https://escholarship.org/uc/item/283097z2
- Adriana Meza Soria, André van der Hoek, and Janet Burge. 2022. Recurring distributed software maintenance meetings: toward an initial understanding. In Proceedings of the 15th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE '22). Association for Computing Machinery, New York, NY, USA, 21–25. https://doi.org/10.1145/3528579.3529179
- Brooke Ryan, Adriana Meza Soria, Kaj Dreef, and André van der Hoek. 2022. Reading to write code: an experience report of a reverse engineering and modeling course. In Proceedings of the ACM/IEEE 44th International Conference on Software Engineering: Software Engineering Education and Training (ICSE-SEET '22). Association for Computing Machinery, New York, NY, USA, 223–234. https://doi.org/10.1145/3510456.3514164
- A. M. Soria and A. Van Der Hoek, "The Design of a Study Concerning the Capture of Important Design Bits at the Whiteboard," 2021 ACM/IEEE International Conference on Model Driven Engineering Languages and Systems Companion (MODELS-C), Fukuoka, Japan, 2021, pp. 390-399, doi: 10.1109/MODELS-C53483.2021.00062.
- Adriana Meza Soria. 2020. KNOCAP: capturing and delivering important design bits in whiteboard design meetings. In Proceedings of the ACM/IEEE 42nd International Conference on Software Engineering:

Companion Proceedings (ICSE '20). Association for Computing Machinery, New York, NY, USA, 194–197. https://doi.org/10.1145/3377812.3381397

- A. Meza Soria and A. van der Hoek, "Collecting Design Knowledge through Voice Notes," 2019 IEEE/ACM 12th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), 2019, pp. 33-36, https://dl.acm.org/citation.cfm?id=3338726
- A. Meza Soria and A. van der Hoek, "Toward Collecting and Delivering Knowledge for Software Design at the Whiteboard," 11th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE), 2018, pp. 108-109, https://ieeexplore.ieee.org/abstract/document/8445548

SELECT PROJECTS

•	AI SE Agents (IBM MIT-IBM AI Watson Lab AI Models Engineering)	2024-present
	An LLM able to solve GitHub issues end-to-end.	

- Synthetic Data Library (IBM | MIT-IBM AI Watson Lab | AI Models Engineering)
 2024-present
 A friendly library to generate synthetic data with WizardLM, WizardCoder, and other algorithms.
- API Pack (IBM | MIT-IBM AI Watson Lab | AI Models Engineering)
 A code instruction dataset to improve LLMs ability to generate API calls.
- Software Maintenance Meetings (UCI | SDCL)
 Single case study of software development meetings.
- Internship mini-project (IBM | MIT-IBM AI Watson Lab | APT)
 Architecture design and development of a service to leverage ML models for product demand forecasting.
 KNOCAP (UCI)

A suite of tools to collect important design bits from developers' conversations during whiteboard design meetings.

Nana Stories (AMIA | Design Competition) – 2nd at AMIA student design competition.
 An Alexa skill that offers in-home exercises for children who require speech and language therapy.

VOLUNTEER WORK

•	Mexico Graduate Research Education Program, UC Irvine (member)	2018-present
•	I-SURF summer program, UC Irvine (mentor)	2019
•	APPCamp summer program, UC Irvine (speaker)	2019
•	ExploreCSR workshop (Google sponsored workshop), CSULB and UC Irvine (mentor)	2019

SKILLS

Technologies

- Programming languages: Python, Java, C#, Delphi, JavaScript
- Database: MySQL, SQL Server, Oracle, PostgreSQL
- IDEs: VS Code, Eclipse, RAD XE5, Android Studio, and XCode, PyCharm
- Data science tools: Jupyter Notebook, pandas, matplotlib
- Sketching and modeling: Visio, StartUML, Moqups, Figma
- Project management: Trello and Target Process
- Code repositories: GIT, TSF (Microsoft), and StarTeam
- Word editors: LATEX, Microsoft Word

Languages

English (fluent), Spanish (native speaker)

SOCIAL NETWORKS

LinkedIn: https://www.linkedin.com/in/adriana-meza-soria-52799961
ResearchGate: https://www.linkedin.com/in/adriana-meza-soria-52799961
ResearchGate: https://www.linkedin.com/in/adriana-meza-soria-52799961
ResearchGate: https://www.researchgate.net/profile/Adriana-Meza-Soria

GoogleScholar: https://scholar.google.com/citations?user=BpMQCb4AAAAJ&hl=en