

MARIA OFELIA CLARISSA Z. SAN PEDRO
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SUMMARY

An educational researcher with a background in computer science, cognitive science, and education with interests in learning analytics, data science, learning sciences, and educational technology. Over 7 years of experience in educational data mining and learning analytics research that leverages technologies in K-12 education. A team player with proven leadership abilities, solid written and oral communication skills, and a strong publication record.

EDUCATION

TEACHERS COLLEGE, COLUMBIA UNIVERSITY Ph.D., Cognitive Science in Education Research Concentration in Learning Analytics and Educational Technology	New York, NY May 2016
ATENEO DE MANILA UNIVERSITY M.S., Computer Science	Quezon City, Philippines March 2011
ATENEO DE MANILA UNIVERSITY B.S., Electronics Engineering, graduated <i>cum laude</i>	Quezon City, Philippines March 2005

WORK EXPERIENCE

ACT, INC. <i>Research Scientist, Learning, Assessment, & Navigation Experiences Research</i>	Iowa City, IA August 2016 – Present
<ul style="list-style-type: none">• Develop and implement research-initiated project proposals in the learning sciences and learning analytics.• Conduct design evaluation in the assessment development process of ACT-related products or services.• Collaborate in thought leadership and research on approaches to learning science and learning analytics.	
TEACHERS COLLEGE, COLUMBIA UNIVERSITY <i>Doctoral Research Fellow</i>	New York, NY September 2012 – June 2016
<ul style="list-style-type: none">• Modeled long-term student outcomes (i.e. post-secondary education) from their middle school usage of an educational software.• Conducted intensive data processing, modeling and analysis of large datasets of fine-grained educational data mined from multiple databases.• Published and presented research papers in local and international academic conferences.• Mentored new graduate students.	
NYC DEPARTMENT OF EDUCATION <i>Assessment Technology Summer Intern (Research Intern)</i>	New York, NY June 2015 – August 2015
<ul style="list-style-type: none">• Evaluated usability of an alternative open-source digital-based assessment platform for potential adoption in NYC public schools.• Implemented and customized Math and ELA assessments within a digital-based assessment platform.	
WORCESTER POLYTECHNIC INSTITUTE <i>Graduate Research Assistant</i>	Worcester, MA August 2011 – August 2012
<ul style="list-style-type: none">• Applied machine learning tools to fine-grained data mined from the database of an educational software.• Facilitated pilot of survey data collection for a federally funded grant.	

ATENEO DE MANILA UNIVERSITY

Graduate Student Researcher, Ateneo Laboratory for the Learning Sciences

Quezon City, Philippines

April 2010 – April 2011

- Implemented student models on student interaction data from an intelligent tutoring system.

POINTWEST INNOVATIONS CORPORATION

Software Engineer

Makati City, Philippines

June 2006 – June 2009

- Executed business analysis, software development and software quality assurance for various business applications of different system platforms.

ACCENTURE MANILA DELIVERY CENTRE

Software Test Lead (Contractor)

Mandaluyong City, Philippines

December 2006 – March 2008

- Led the entire test phase design of a year-long new product project involving multiple technology groups.
- Managed various testing support requests of client on newly installed products.

CANON INFORMATION TECHNOLOGIES

Quality Software Engineer (Industry Practicum)

Quezon City, Philippines

April 2004 – May 2004

- Conducted functional testing of Bluetooth devices for Canon products.

COMPUTER SKILLS**PROGRAMMING LANGUAGES:**

R, Java, Python (Basic)

STATISTICAL/DATA MINING TOOLS:

SAS, SPSS, MPlus, RapidMiner, Weka, Matlab

DATABASE:

MySQL

WEB DEVELOPMENT:

HTML, CSS, PHP, Javascript (Basic)

PRESENTATION:

Flash, Powerpoint

SOFTWARE ENGINEERING:

Software Quality Assurance, Software Design and Development

HONORS AND AWARDS**DOCTORAL RESEARCH FELLOWSHIP**, TEACHERS COLLEGE, COLUMBIA UNIVERSITY (2012-2016)**FINALIST**, 2015 NAED/SPENCER DISSERTATION FELLOWSHIP**SELECTED PUBLICATIONS**

Sanchez, E., Moore, R., & **San Pedro, M.O.Z.** (2018). *Investigating test prep impact on score gains using quasi-experimental propensity score matching*. Iowa City, IA: ACT.

San Pedro, M. O. Z., Baker, R. S., & Heffernan, N. T. (2017). An Integrated Look at Middle School Engagement and Learning in Digital Environments as Precursors to College Attendance. *Technology, Knowledge and Learning*, 22(3), 243-270.

San Pedro, M.O.Z., Baker, R.S. (2016) Adaptive Learning. In McCarthy, M. (Ed.) *The Cambridge Guide to Blended Learning for Language Technologies*, pp. 234-247

Ocuppaugh, J., **San Pedro, M. O.**, Lai, H. Y., Baker, R. S., & Borgen, F. (2016). Middle School Engagement with Mathematics Software and Later Interest and Self-Efficacy for STEM Careers. *Journal of Science Education and Technology*, 1-11.

San Pedro, M.O.Z., Snow, E.L., Baker, R.S., McNamara, D., Heffernan, N. (2015) Exploring Dynamic Assessments of Affect, Behavior, and Cognition and Math State Test Achievement. In *Proceedings of the 8th International Conference on Educational Data Mining*, 85-92. (**presented paper**)

Snow, E.L., **San Pedro, M.O.Z.**, Jacovina, M., McNamara, D.S., Baker, R.S. (2015) Achievement versus Experience: Predicting Students' Choices during Gameplay. In *Proceedings of the 8th International Conference on Educational Data Mining*, 564-565.

San Pedro, M. O. Z., d Baker, R. S., & Rodrigo, M. M. T. (2014). Carelessness and Affect in an Intelligent Tutoring System for Mathematics. *International Journal of Artificial Intelligence in Education*, 24(2), 189-210.

Pardos, Z.A., Baker, R.S., & **San Pedro, M.O.C.Z.**, Gowda, S.M., Gowda, S.M. (2014) Affective states and state tests: Investigating how affect and engagement during the school year predict end of year learning outcomes. *Journal of Learning Analytics*, 1 (1), 107-128.

San Pedro, M.O.Z., Baker, R.S.J.d., Bowers, A.J., & Heffernan, N.T. (2013) Predicting College Enrollment from Student Interaction with an Intelligent Tutoring System in Middle School. *Proceedings of the 6th International Conference on Educational Data Mining*, 177-184. (**presented paper**)

San Pedro, M.O.Z., Baker, R.S.J.d., Gowda, S.M., & Heffernan, N.T. (2013) Towards an Understanding of Affect and Knowledge from Student Interaction with an Intelligent Tutoring System. *Proceedings of the 16th International Conference on Artificial Intelligence and Education*, 41-50. (**presented paper**)