

Aleksander Dietrichson

CHIEF SCIENCE OFFICER

Chi Square Laboratories

+54 (911) 6408 3613 | dietrichson@gmail.com | [dietrichson](https://www.linkedin.com/company/dietrichson) | [dietrichson](https://www.linkedin.com/company/dietrichson)

Education

Columbia University

PHD IN COMPARATIVE EDUCATION

- Dissertation: Digital Literacy: How to Measure Browsing Behavior.

New York, NY

2001

Teachers College – Columbia University

MA IN APPLIED LINGUISTICS

- Thesis topic: Processing of Alphabetic and Logographic Script in a Cross Cultural Stroop Test.

New York, NY

1997

University of Bergen

BA IN LINGUISTICS, MODERN LANGUAGES AND STATISTICS

- Field of Concentration: Statistics and Quantitative Linguistics.

Norway

1993

Research Appointments

Keio University

VISITING RESEARCHER

- Developed research-based curriculum for online courses in Academic English.

Tokyo, Japan

2003-2005

Teachers College - Columbia University

TECHNOLOGY FELLOW

- Research on LMS and courseware usability.

New York, NY

1999-2000

Professional Experience

Chi Square Laboratories

CHIEF SCIENCE OFFICER

- In charge of AI research.
- Integration of AI into mobile app.

New York

2019 - Present

Universidad de San Martin

PROFESSOR

- Teaching Data Science AI research.
- Research on Artificial Intelligence (LLM and NLP).

Buenos Aires

2019 - Present

X-Ray Research

CHIEF DATA SCIENTIST

- Consulting on Ethergeist.
- Developed synthetic polling algorithms and social network analysis for the Ethergeist's product.

New York / Buenos Aires /

Montevideo

2018 – 2019

Blackboard Inc.

SENIOR DATA SCIENTIST

- Implemented knowledge transfer related to acquisition of X-Ray Learning Analytics.
- Developed and implemented predictive business intelligence.
- Oversaw scaling of X-Ray Learning Analytics from 3 to 2000+ clients.
- Oversaw implementation of X-Ray algorithms in Blackboard Learn.
- Developed and implemented retention risk modeling and meta-predictive retention risk modeling.

Washington, DC

2015-2018

X-Ray Research

PRINCIPAL RESEARCHER

- In charge of research and development of learning analytics platform: X-Ray Learning Analytics.
- Planned and implemented transition of X-Ray Learning Analytics (acquired by Blackboard).

Montevideo, Uruguay

2011-2015

UVCMS

PRINCIPAL AND OWNER

- Oversaw development of technology and research based products.
- Implemented artificial intelligence in the development of 150+ online courses for McGraw-Hill.
- Designed and implemented Content Authoring Engine (CAE).

Buenos Aires, Argentina

2003-2011

SMC E-Learning

CHIEF TECHNICAL OFFICER

- In charge of joint venture with Columbia Digital Knowledge Ventures.

New York University

ADJUNCT PROFESSOR

- Taught two online and two face-to-face courses in Java and C++.

Columbia University, Language research Lab.

RESEARCH ASSISTANT

- Wrote white paper on distance learning.

College of New Rochelle

DIRECTOR FOR COMPUTATIONAL RESOURCES

- Oversaw on-campus computer centers and trained staff.

College of New Rochelle

ADJUNCT PROFESSOR

- Taught Academic English.

Teachers College – Columbia University

TEACHING ASSISTANT AND PRODUCER

- Responsible for the design, implementation and technical aspects of two online courses.

Teachers College – Columbia University

PROJECT CO-DIRECTOR

- Responsible for data collection and statistical analyses for 'Project Transformations'.
- Served as liason with ORACLE, the project sponsor.

Centro Cultural Escandinavo

COORDINATOR

- Responsible for all the center's activities.

New York, NY

2001-2003

New York, NY

2000

New York, NY

1999

New York, NY

1999

New York, NY

1999

New York, NY

1998

New York, NY

1997

Quito – Ecuador

1994-1996

Publications

1. Dietrichson, A. (2013). Beyond clickometry: Analytics for constructivist pedagogies. *International Journal of E-Learning*, 12(4), 333–351.
2. Dietrichson, A. (2015). The importance of being ernesto: What quantitative onomastics reveals about multiculturalism in america. *Proceedings of the 60th Annual Conference of the International Linguistics Association*.
3. Dietrichson, A., & Pagnone, P. (2018). Newspaper analysis. *Proceedings of LatinR 2018*.
4. Dietrichson, A. (2017). Where you sit determines where you stand, and how you show it: Social network analysis and quantitative linguistics applied to geo-localized twitter messages. *Proceedings of the 61th Annual Conference of the International Linguistics Association*.
5. Dietrichson, A., Whitmer, J., & Forteza, D. (2019). Meta-predictive retention risk modeling: Risk model readiness assessment at scale with x-ray learning analytics. *Proceedings of the II Conferencia Latinoamericana de Analíticas de Aprendizaje – LALA 2019*.
6. Dietrichson, A. (2010). Discussion group data patterns: Two approaches to analysis. *Proceedings of the 3rd Annual Sloan Consortium Symposium: Emerging Technologies for Online Learning*.
7. Dietrichson, A. (2004). Multi-modality in on-line communication: Theory and practice. *Proceedings of e-Learn 2004 World Conference of e-Learning in Corporate Government, Healthcare and Higher Education*.
8. Dietrichson, A., Iinuma, M., & Yachi, M. (2004). English academic writing theory and practice of an online tutorial system. *Proceedings of the 2004 Conference of the Pacific Association for Computer Assisted Language Learning*.
9. Dietrichson, A. (2003). Issues in cross cultural interface design in theory and practice. *Proceedings of the 2003 Conference of the Asian Association of Computer Assisted Language Learning*.
10. Dietrichson, A. (2001). Cyber literacy: How to measure browsing behavior. *Proceedings of the Fall Symposium of the International Linguistics Association*.
11. Dietrichson, A. (2001). Cyber metatalk. *Proceedings of the 2001 de AREA Conference*.
12. Dietrichson, A. (1997). Will you stroop for me: Implications of a cross-linguistic stroop test using alphabetic and logographic scripts in combination with arrows. *Proceedings of the New York Association for Applied Linguistics Summer Institute*.
13. Whitmer, J., Dietrichson, A., & O'Haver, B. (2016). Validating automated triggers and notifications @ scale in blackboard learn. *Proceedings of the 9th International Conference on Educational Data Mining, EDM 2016, Raleigh, North Carolina, USA, June 29 - July 2, 2016*, 648–649.
14. Dietrichson, A. (2017). Going enterprise with x-ray learning analytics. *Presentation Made at EARL, San Francisco*.

15. Dietrichson, A. (2022). *Métodos cuantitativos*. bookdown.org. <https://bookdown.org/dietrichson/metodos-cuantitativos/>

CRAN contributions

1. Dietrichson, A., & Davit, J. (2019). *ProPublicaR: Access functions for ProPublica's APIs*. <https://CRAN.R-project.org/package=ProPublicaR>
2. Dietrichson, A. (2016). *couchDB: Connect to and work with CouchDB databases*. <https://CRAN.R-project.org/package=couchDB>
3. Dietrichson, A. (2021). *moodleR: Helper functions to work with 'moodle' LMS data*. <https://CRAN.R-project.org/package=moodleR>