

# Aleksander Dietrichson

CHIEF DATA SCIENTIST

X-Ray Research

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## 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 on 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

### X-Ray Research

CHIEF DATA SCIENTIST

- Consulting on Ethergeist.

New York, NY

2018 – Present

### 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, NY

2001-2003

### New York University

ADJUNCT PROFESSOR

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

New York, NY

2000

### Columbia University, Language research Lab.

RESEARCH ASSISTANT

- Wrote white paper on distance learning.

New York, NY

1999

### College of New Rochelle

DIRECTOR FOR COMPUTATIONAL RESOURCES

- Oversaw on-campus computer centers and trained staff.

New York, NY

1999

## 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

1999

New York, NY

1998

New York, NY

1997

Quito – Ecuador

1994-1996

## Publications

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### SELECTED PAPERS AND PRESENTATIONS

1. Dietrichson, A, J Whitmer, and D Forteza (2019). Meta-Predictive Retention Risk Modeling: Risk Model Readiness Assessment at Scale with X-Ray Learning Analytics. In: *Proceedings of the II Conferencia Latinoamericana de Analíticas de Aprendizaje – LALA 2019*.
2. Dietrichson, A and P Pagnone (2018). Newspaper Analysis. In: *Proceedings of LatinR 2018*.
3. Dietrichson, A (2017a). *Going enterprise with X-Ray Learning Analytics*. Presentation made at EARL, San Francisco.
4. Dietrichson, A (2017b). Where You Sit Determines Where You Stand, and How You Show It: Social Network Analysis and Quantitative Linguistics Applied to Geo-localized Twitter Messages. In: *Proceedings of the 61th Annual Conference of the International Linguistics Association*.
5. Whitmer, J, A Dietrichson, and B O'Haver (2016). Validating Automated Triggers and Notifications @ Scale in Blackboard Learn. In: *Proceedings of the 9th International Conference on Educational Data Mining, EDM 2016, Raleigh, North Carolina, USA, June 29 - July 2, 2016*, pp.648–649.
6. Dietrichson, A (2015). The Importance of Being Ernesto: What Quantitative Onomastics Reveals about Multiculturalism in America. In: *Proceedings of the 60th Annual Conference of the International Linguistics Association*.
7. Dietrichson, A (2013). Beyond Clickometry: Analytics for Constructivist Pedagogies. *International Journal of E-Learning* 12(4), 333–351.
8. Dietrichson, A (2010). Discussion Group Data Patterns: Two Approaches to Analysis. In: *Proceedings of the 3rd Annual Sloan Consortium Symposium: Emerging Technologies for Online Learning*.
9. Dietrichson, A (2004). Multi-modality in On-line Communication: Theory and Practice. In: *Proceedings of E-learn 2004 World Conference of E-learning in Corporate Government, Healthcare and Higher Education*.
10. Dietrichson, A, M Iinuma, and M Yachi (2004). English Academic Writing Theory and Practice of an online tutorial system. In: *Proceedings of the 2004 conference of the Pacific Association for Computer Assisted Language Learning*.
11. Dietrichson, A (2003). Issues in cross cultural interface design in theory and practice. In: *Proceedings of the 2003 conference of the Asian Association of Computer Assisted Language Learning*.
12. Dietrichson, A (2001a). Cyber Literacy: How to Measure Browsing Behavior. In: *Proceedings of the Fall symposium of the International Linguistics Association*.
13. Dietrichson, A (2001b). Cyber Metatalk. In: *Proceedings of the 2001 de AREA conference*.
14. Dietrichson, A (1997). Will you stroop for me: Implications of a Cross-Linguistic Stroop Test Using Alphabetic and Logographic Scripts in Combination with Arrows. In: *Proceedings of the New York Association for Applied Linguistics Summer Institute*.

### CRAN CONTRIBUTIONS

1. Dietrichson, A (2016). *couchDB: Connect to and Work with CouchDB Databases*. R package version 1.4.1. <https://CRAN.R-project.org/package=couchDB>.
2. Dietrichson, A and J Davit (2019). *ProPublicaR: Access Functions for ProPublica's APIs*. R package version 0.9.2. <https://CRAN.R-project.org/package=ProPublicaR>.