Aleksander Dietrichson

CHIEF DATA SCIENTIST

X-Ray Research

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Education

Columbia University	*New York, NY*
PHD IN COMPARATIVE EDUCATION	*2001*

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

Teachers College – Columbia University	*New York, NY*
MA IN APPLIED LINGUISTICS	*1997*

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

University of Bergen	*Norway*
BA IN LINGUISTICS, MODERN LANGUAGES AND STATISTICS	*1993*

- Field of Concentration: Statistics and Quantitative Linguistics.

Research Appointments

Keio University	*Tokyo, Japan*
VISITING RESEARCHER	*2003-2005*

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

Teachers College - Columbia University	*New York, NY*
TECHNOLOGY FELLOW	*1999-2000*

- Research on LMS and courseware usability.

Professional Experience

X-Ray Research	*New York, NY*
CHIEF DATA SCIENTIST	*2018 – Present*

- Consulting on Ethergeist.

Blackboard Inc.	*Washington, DC*
SENIOR DATA SCIENTIST	*2015-2018*

- 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.

X-Ray Research	*Montevideo, Uruguay*
PRINCIPAL RESEARCHER	*2011-2015*

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

UVCMS	*Buenos Aires, Argentina*
PRINCIPAL AND OWNER	*2003-2011*

- 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).

SMC E-Learning	*New York, NY*
CHIEF TECHNICAL OFFICER	*2001-2003*

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

New York University	*New York, NY*
ADJUNCT PROFESSOR	*2000*

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

Columbia University, Language research Lab.	*New York, NY*
RESEARCH ASSISTANT	*1999*

- Wrote white paper on distance learning.

College of New Rochelle	*New York, NY*
DIRECTOR FOR COMPUTATIONAL RESOURCES	*1999*

- Oversaw on-campus computer centers and trained staff.

College of New Rochelle   *New York, NY*

ADJUNCT PROFESSOR   *1999*

• Taught Academic English.

Teachers College – Columbia University   *New York, NY*

TEACHING ASSISTANT AND PRODUCER   *1998*

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

Teachers College – Columbia University   *New York, NY*

PROJECT CO-DIRECTOR   *1997*

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

Centro Cultural Escandinavo   *Quito – Ecuador*

COORDINATOR   *1994-1996*

• Responsible for all the center's activities.

Publications

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 (2017). *Going enterprise with X-Ray Learning Analytics*. Presentation made at EARL, San Francisco.

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. 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 (2001). Cyber Literacy: How to Measure Browsing Behavior. In: *Proceedings of the Fall symposium of the International Linguistics Association.*

13. Dietrichson, A (2001). 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`.