Aurélie LEMMENS

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COORDINATES

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ACADEMIC POSITIONS

2019 – Present:	ASSOCIATE PROFESSOR – Rotterdam School of Management Erasmus University, Department of Marketing Management	
2011 – 2019:	ASSOCIATE PROFESSOR – Tilburg School of Economics and Management Tilburg University, Department of Marketing	
2008 – 2011:	ASSOCIATE PROFESSOR – Erasmus School of Economics Erasmus University, Department of Business Economics, Marketing Section	
2006 – 2008:	ASSISTANT PROFESSOR – Erasmus School of Economics Erasmus University, Department of Business Economics, Marketing Section	

VISITING POSITION

Spring-Fall 2012:	VISITING SCHOLAR – Harvard Business School
	Harvard University, Department of Marketing

EDUCATION

2002 - 2006:	PhD. in Business Statistics – Catholic University Leuven			
	Dissertation: "Advanced Classification and Time-Series Methods in Marketing"			
	Advisor: Prof. Dr. C. Croux; Co-Advisor: Prof. Dr. M.G. Dekimpe			

1997 - 2002: MSc. in Business Engineering – Solvay Business School

RESEARCH INTERESTS

SUBSTANTIVE INTERESTS

- (I) Customer-centric strategies using data science (customer analytics), including customer acquisition & retention, customer profitability, CLV, and word of mouth;
- (II) (International) new product strategies, including new product launch & diffusion patterns, international pricing and international segmentation.

METHODOLOGICAL INTERESTS

- (I) Machine learning, including ensemble methods (bagging stochastic gradient boosting and method combination optimization), parametric & nonparametric binary choice models, and optimization techniques (gradient descent);
- (II) Time series & spectral analysis, including time-varying coefficient models, panel error-correction models, semiparametric modeling, Granger causality, forecasting.

- Excellent Teacher Award 2017 & 2019, awarded by Tilbug School of Economics and Management for the course *Conjoint Analysis*.
- **Data Science PhD grant 2017** (financing for a four-year PhD position), awarded by the Data Science Center at Tilburg University for the project: "*The act-react problem: A sequential learning approach to optimize intervention timing and intervention outcome*," coauthored with Maurits Kaptein.
- Aspasia/TiSEM contribution 2016 (10,000 EUR), incentive prize awarded by the Tilburg School of Economics and Management.
- Vidi grant (November 2013 July 2019, 5 year salary grant 800,000 EUR), awarded by the Dutch scientific foundation NWO for the project: "Seeding Strategies to Foster Innovation Adoption: an Incentivizing Approach."
- **IJRM Best Paper Award 2012** for "Dynamics in the international market segmentation of new product growth" co-authored with C. Croux and S. Stremersch.
- Veni grant (June 2010 June 2013, 3 year salary grant 250,000 EUR), awarded by the Dutch scientific foundation NWO for the project: "International Ties in Launch and Adoption Patterns of New Products: The Role of Cross-Country Spillover Effects."
- **Top Talent Researcher Awards 2008 & 2009 (20,000 EUR)**, incentive prize awarded by the Erasmus School of Economics to reward new talents.
- Marie Curie Individual Fellowship (October 2006 October 2008, 2 years salary grant 135,000 EUR), awarded by the European Commission, DG Research for the project: "Diffusion of New Pharmaceutical Drugs in a Global Environment."

GOVERNANCE AND SERVICE

Rotterdam School of Management

Recruitment head, 2019-present

Tilburg University

Data Science Task Force MSc. Business Analytics, TiSEM, 2017-present Data Science Committee, Bachelor & Master, TiSEM, 2014-2016 Education Committee for the MSc. Marketing Analytics, 2017-present Jheronimus Academy of Data Science, Outreach to Companies, 2016-2017 Recruiting Committee, Data Science Chair sponsored by CZ, 2017 Seminar Organization, Marketing Department, 2011-2015, 2017-present Zwaartekracht Committee on Responsible Data Science, 2016

Erasmus School of Economics

Academic Director MSc. Marketing, 2008-2011 Coordinator MSc. theses Marketing, 2008-2011 ERIM Fellow, 2006-2011 Tinbergen Institute Fellow, 2006-2011

Other Institutions

Assessment Committee, NWO Research Talent, 2017-2018 Faculty Member, EMAC Doctoral Colloquium, 2011 & 2017 Hiring Committee, Chair in Marketing Analytics, Solvay Business School, 2016-2018 Inaugural Team Leader, EMAC SIG Modeling/Quantitative Marketing/Marketing Analytics/Marketing Research, 2017-present

Editorial Board

International Journal of Research in Marketing

Ad-hoc Reviewer

Journal of Marketing Research, Marketing Science, Management Science, Journal of Marketing, Journal of the Academy of Marketing Science, Quantitative Marketing and Economics, Journal of Interactive Marketing, European Journal of Operation Research, European Marketing Academy Conference, Oxford Bulletin of Economics and Statistics, Journal of Economic Dynamics and Control.

PUBLICATIONS

Number of citations: 1219; h-index: 13; i10-index: 13

- Ascarza, E., Neslin, S., Netzer, O., Anderson, Z., Fader, P., Gupta, S., Hardie, B., Lemmens, A., Libai, B., Neal, D., Provost, F., and Schrift, R. (2018), "In Pursuit of Enhanced Customer Retention Management: Review, Key Issues, and Future Directions," *Customer Needs and Solutions*, 5(1-2), 65-81.
 - * Resulting in MSI workshop on Integrated Customer Retention Management, New York, October 2017
- *Glady, N., Lemmens, A., and Croux, C. (2015), "Unveiling the Relationship between the Transaction Timing, Spending and Dropout Behavior of Customers," *International Journal of Research in Marketing*, 32, 78–93. [*Equal contribution]
- Verbeke, W.J.M.I., Bagozzi R.P., van den Berg W., and Lemmens, A. (2013), "Polymorphisms of the OXTR Gene to Explain Why Sales Professionals Love to Help Customers," *Frontiers in Behavioral Neuroscience*, 7(171), 1-13.
- Lemmens, A., Croux, C. and Stremersch, C. (2012), "Dynamics in International Market Segmentation of New Product Growth," *International Journal of Research in Marketing*, 29(1), 81-92.

* Winner of the 2012 IJRM best paper award.

- Bijmolt, T.H.A., Leeflang, P.S.H, Block, F., Eisenbeiss, M., Hardie, B.G.S., Lemmens, A. and Saffert, P. (2010), "Analytics for Customer Engagement," *Journal of Service Research*, 13(3), 341-356.
- *Stremersch, S. and Lemmens, A. (2009), "Sales Growth of New Pharmaceuticals across the Globe: the Role of Regulatory Regimes," *Marketing Science*, 28(4), 690-708. [*Equal contribution]
- Lemmens, A., Croux, C. and Dekimpe, M.G. (2008), "Measuring and Testing Granger Causality over the Spectrum: An Application to European Production Expectation Surveys," *International Journal* of Forecasting, 24(3), 414-431.
- Lemmens, A., Croux, C. and Dekimpe, M.G. (2007), "Consumer Confidence in Europe: United in Diversity?" *International Journal of Research in Marketing*, 24 (2), 113-127.
- Gelper S., Lemmens A. and Croux C. (2007), "Consumer Sentiment and Consumer Spending: Decomposing the Granger Causal Relationship in the Time Domain," *Applied Economics*, 39, 1-11.

- Croux, C., Joossens, K. and Lemmens, A. (2007), "Trimmed Bagging," *Computational Statistics and Data Analysis*, 52 (1), 362-368.
- Lemmens, A. and Croux, C. (2006), "Bagging and Boosting Classification Trees to Predict Churn," *Journal of Marketing Research*, 43(2), 276-286.
- Lemmens, A., Croux, C. and Dekimpe, M.G. (2005), "On the Predictive Content of Production Surveys: a Pan-European Study," *International Journal of Forecasting*, 21(2), 363-375.

WORKING PAPERS AND REPORTS

- Pieters, C. and Lemmens, A. (2015), "Acquiring Customers via Word-of-Mouth Referrals: A Virtuous Strategy?" *MSI Working Paper Series*, No. 15-123.
- Lemmens, A., and Gupta, S. (2013), "Managing Churn to Maximize Profits," *Harvard Business School Working Paper*, No. 14-020.
- Croux, C., Joossens, K. and Lemmens, A. (2004), "Bagging a Stacked Classifier," *Proceedings in Computational Statistics*, edited by Jaromir Antoch, 839-846.

RESEARCH IN PROGRESS (SELECTED SET)

Lemmens, A. and Gupta, S., Managing Churn to Maximize Profits

- Lemmens, A., Donkers, B. and Verhoef, P.C., Whom to Target: Managing Risk when Predicting Retention
- Pieters, C., Lemmens, A. and Pieters, F.G.M., Pass it Forward: Being Referred Increases Customers' Tendency to Refer Independently of Satisfaction
- Pieters, C., Pieters, F.G.M. and Lemmens, A., Moderation Analysis with Measurement Error
- Estrezon, E., Lemmens, A. and Van den Bergh, B., Targeting Donors: Providing the Possibility to Target a Charitable Gift

Puha, Z., Lemmens, A. and Kaptein, M., Smart Experimentation

CONFERENCE PRESENTATIONS

"Smart Experimentation for Customer Proactive Retention Management,"

- * Triennial Invitational Choice Symposium, Cheasapeake Bay, May 2019.
- "Whom to Target: Managing Risk when Predicting Churn,"
 - * Marketing Science Conference, Los Angeles, June 2017.
- "Reactive versus Proactive Retention,"
 - * Triennial Invitational Choice Symposium, Lake Louise, May 2016.
- "Managing Churn to Maximize Profits,"
 - * Marketing Science Conference, Istanbul, July 2013.

- * Theory and Practice in Marketing, London, May 2013.
- * Marketing Science Conference, Stephen Ross School of Business, Ann Arbor, June 2009.

"Cross-National Differences in the Diffusion Patterns of New Products: A Semiparametric Approach"

- * Marketing Science Conference, Sauder School of Business, Vancouver, June 2008.
- * EMAC Conference, Reykjavik University, May 2007.
- * Marketing Science Conference, Katz Graduate School of Business, Pittsburgh, June 2006.

"Sales Growth of New Pharmaceuticals across the Globe: The Role of Regulatory Regimes"

- * Marketing Dynamics Conference, Groningen University, August 2007.
- * Marketing Science Conference, Special Session Marketing/Health, Singapore, June 2007.

"Measuring and Testing for Granger Causality over the Spectrum"

* Marketing Science Conference, Singapore Management University, June 2007.

"Bagging and Boosting Classification Trees to Predict Churn. Insights from the US Telecom Industry"

- * Marketing Science Conference, Goïzueta Business School, Atlanta, June 2005.
- * 11th Annual Meeting of Belgian Statistical Society, La Roche, October 2003.

"Do Distances Still Matter in a Unified Europe?"

* EMAC Conference, Bocconi University, Milan, May 2005.

"Bagging a Stacked Classifier"

* COMPSTAT 2004, 16th Symposium of IASC, Prague, August 2004.

"On the Predictive Content of Production Surveys: a Pan-European Study"

* Marketing Science Conference, Rotterdam, June 2004.

INVITED PRESENTATIONS AND PHD TUTORIALS

Invited Presentations

"Managing Churn to Maximize Profits"

- * Rotterdam School of Management, February 2019.
- Erasmus School of Eonomics during the 'Advances in quantitative marketing' workshop organized for the 103rd Dies Natalis of Erasmus University, November 2016.
- * Wageningen University, March 2015.
- * Goethe University, Frankfurt, January 2014.
- * Tuck School of Business, Dartmouth College, May 2013.
- * INSEAD, Fontainebleau, February 2013.

"Sales Growth of New Pharmaceuticals across the Globe: the Role of Regulatory Regimes"

* Health Economics Seminar, Erasmus University Rotterdam, November 2008.

"Characterizing International Diffusion Patterns"

* University of Groningen, November 2006.

"Bagging and Boosting Classification Trees to Predict Churn"

- * Marketing Winter Camp, K.U. Leuven, December 2005.
- * ULg (University of Liège), April 2006.

"Do Distances Still Matter in a Unified Europe?"

- * Warwick Business School, August 2005.
- * Erasmus University Rotterdam, October 2005.
- * Tilburg University, October 2005.

PhD Tutorials

"Model Validation Techniques"

- * Rotterdam School of Management, March 2017.
- * Tilburg University, 2016 & 2017.

"Machine Learning Algorithms for Marketing"

* Harvard Business School, April 2012.

COMPANY COLLABORATIONS

I am collaborating with national and international companies in the area of telecommunications (KPN, DirecTV), online learning (Udemy), e-commerce (CrossEngage), banking/insurance (ING, Delta Lloyd), and charitable giving, among others, in order to design new customer analytics tools (mostly in the domain of customer retention and referral programs), and define interesting research challenges.

TEACHING ACTIVITIES

	Average Teaching Evaluation
Conjoint Analysis 2016-present (Master in Marketing)	4.5 / 5
CentER Honors Program 2014-present (Bachelor & Master)	4.5 / 5
Advanced Marketing Research 2011-2015 (Master in Marketing)	4.3 / 5
International Marketing Research 2006-2010 (Master in Marketing)	4.2 / 5
Advanced Research Techniques 2016-present (PhD program)	-
Business Research 2016-present (Bachelor - guest lectures)	-
Master's Thesis Marketing 2006-present	-
Bachelor's Thesis Marketing 2011-2014	-

PHD SUPERVISION

Constant Pieters (2014-present), financed by a NWO Vidi grant. Zoltan Puha (2018-present), financed by a Tilburg Data Science Center grant.

MEMBER OF DOCTORAL COMMITTEES

Ana Martinovici (Tilburg University), 2019 Pierrick Piette (University of Lyon), 2019 Hang-yee Chan (Rotterdam School of Management), 2019 Håvard Huse (Norwegian School of Economics), 2019 Jeroen L.G. Binken (Erasmus University Rotterdam), 2010 Carlos Hernandez Mireles (Erasmus University Rotterdam), 2010 Isabel Verniers (University of Ghent), 2009 Nicolas Glady (K.U. Leuven), 2008.

Last updated, August 2019