

Nathan Hancart

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Current Position	PhD Candidate in Economics , University College London Expected Completion: 2023	2018 – present
Fields	Primary: Microeconomic Theory Secondary: Information Economics, Behavioural Economics	
Supervisors	Prof. Ran Spiegler Prof. Vasiliki Skreta	
Prior Education	MRes in Economics, University College London MSc in Economics, University College London BSc in Business Engineering, Université Libre de Bruxelles	2018 2017 2016
Job Market Paper	Optimal Menus of Tests I study the optimal design of menus of tests. Prior to taking a binary decision, accept or reject a privately informed agent, a decision-maker (DM) can perform one test from a restricted set. For example, the restriction can come from information processing or technological constraints. The DM wants to accept a subset of types whereas the agent always wants to be accepted. Instead of choosing the test himself, the DM let the agent choose a test from a menu. The choice itself then serves as an additional dimension for information revelation. I characterise when a menu is optimal and show that the DM does not benefit from committing to an action. Using these results, I show conditions under which the DM wants or does not want to include strictly less informative test in the menu. I also define an order on tests that characterises which tests are part of an optimal menu.	
Working Paper	Managing the Expectations of Buyers with Reference-dependent Preferences, <i>R&R at Journal of Economic Theory</i> I consider a model of monopoly pricing where a risk-neutral firm makes an offer to a buyer with reference-dependent preferences. The reference point is the ex-ante probability of trade and the buyer exhibits an attachment effect: the higher his expectations to buy, the higher his willingness-to-pay. When the buyer's valuation is private information, a unique equilibrium exists where the firm plays a mixed strategy and its profits are the same as in the reference-independent benchmark. The equilibrium always entails inefficiencies: even as the firm's information converges to complete information, it mixes on a non-vanishing support and the probability of no trade is greater than zero. Finally, I show that when the firm can obtain costless signals on the buyer's valuation, it can do strictly better than in the reference-independent benchmark by leveraging the uncertainty generated by a noisy learning strategy. However, this advantage vanishes as the attachment effect grows large.	
Teaching	Microeconomics (MRes, UCL) Advanced Microeconomic Theory (MSc, UCL) Economics of Information (BSc, UCL)	2018 – present 2018 – 2020 2017 – 2019
Referee Service	Theoretical Economics	
Professional Experience	Research assistant for Prof. Ran Spiegler Research assistant for Prof. Vasiliki Skreta Student Representative for PhD students at the Economics Department	Apr 2018 – 2022 2019 – 2022 2017 – present
Presentations	International Conference on Game Theory (Stony Brook, 2022), Brown-bag theory seminar UCL (2022, 2021), World Congress Game Theory Society (Budapest, 2021), Applied Theory Workshop (Toulouse School of Economics, 2020)	
Languages	French (Native), English (Fluent), Dutch (Basic), Hebrew (Basic)	

Software Skills Mathematica, Matlab