

# Nathan Hancart

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Current Position	<b>PhD Candidate in Economics</b> , University College London Expected Completion: 2023	2018 – present
Fields	Primary: Microeconomic Theory Secondary: Information Economics, Behavioral Economics	
Supervisors	Prof. Ran Spiegler Prof. Vasiliki Skreta	
Prior Education	<b>MRes</b> in Economics, University College London <b>MSc</b> in Economics, University College London <b>BSc</b> in Business Engineering, Université Libre de Bruxelles	2018 2017 2016
Job Market Paper	<b>Optimal Menus of Tests</b> 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. Finally, I demonstrate in an application how the need to provide incentives for self-selection in a menu hinders the ability to learn from the test itself.	
Working Paper	<b>Managing the Expectations of Buyers with Reference-dependent Preferences</b> 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	<b>Microeconomics</b> (MRes, UCL) <b>Advanced Microeconomic Theory</b> (MSc, UCL) <b>Economics of Information</b> (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	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)	

