

# SIMON FINSTER

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## EDUCATION

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University of Oxford – Ph.D. (D.Phil.), Economics, Nuffield College, 2016 -

“Essays on Multi-Object Auctions for Differentiated Goods” | Supervisor: Prof. Paul Klemperer

Paris School of Economics – Masters, Economics (APE), 2014 - 2016

Karlsruhe Institute of Technology (KIT) – B.Sc., Industrial Engineering, 2010 - 2013

## REFERENCES

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Prof. Paul Klemperer

Department of Economics

University of Oxford

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## RESEARCH FIELDS

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Microeconomic Theory, Auction and Market Design, Experimental Economics

## WORK IN PROGRESS

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“Selling Multiple Complements with Packaging Costs” [[job market paper](#)]

I consider a package assignment problem where multiple units of indivisible objects are allocated to individuals. The seller can specify additional costs or cost savings on certain packages of objects: e.g., a manufacturer may incur cost savings if they obtain a range of products or services from a single supplier. The objective is to find a socially efficient allocation among buyers. I propose a sealed-bid auction with a novel cost function graph to express the seller’s preferences. The graph structure facilitates the use of linear programming to find anonymous, competitive, and package-linear prices. If agents act as price takers, these prices support a Walrasian equilibrium, and I provide additional conditions under which an equilibrium always exists. The auction design guarantees fairness and transparency in pricing, and it admits preferences of the seller or auctioneer over the type and degree of concentration in the market.

“Strategic Bidding in Product-Mix, Sequential, and Simultaneous Auctions” (theory and experiment) [[working paper](#)]

The three auction formats are used to sell differentiated, indivisible goods. A flexible bidder with unit demand, interested in buying any of the goods, competes against several inflexible bidders, each interested in only one specific good. For first-price and second-price payments, I obtain theoretical results on equilibrium bidding, and compare efficiency, revenue, and bidder surplus numerically. Differences in outcomes between Product-Mix and sequential auctions are small for a range of value distributions. The simultaneous auction performs worst in all dimensions, and differences in performance vary substantially with the degree of competition the flexible bidder faces. I have planned a series of lab experiment to obtain further insights into real-life bidding behaviour in the three auction formats, addressing the effect of anticipated regret as well as resale prospects.

“The Complexity of Envy-free Pricing in Revenue-maximising Multi-unit Auctions” (with Paul Goldberg and Edwin Lock, University of Oxford)

This paper considers the computational challenges of finding an envy-free and revenue-maximising allocation and prices in multi-unit environments. The tension between envy-freeness and maximal seller’s revenue makes this problem as computationally difficult as highly practically relevant: a mechanism with these properties has applications in many public and private sector auctions, e.g., for the licensing of telecommunication spectrum and natural resource extraction, in financial markets and procurement. We present a linear-time algorithm in the case where the expressivity of the bidding language is restricted to additive demand. In the more general case where the bidding language is restricted to specifying trade-offs between at most two objects,

we show that it is impossible in polynomial time to get arbitrarily close to maximum revenue when respecting the constraints of envy-freeness, generalising results from the previous literature.

“Robust Bidding in Multi-unit Auctions” (with Bernhard Kasberger, University of Oxford)

We study optimal bidding under strategic uncertainty. If a bidder faces a high degree of uncertainty about the bidding environment, a formulation of priors is an unrealistic assumption. Instead, we develop a robust bidding rule that requires no prior information about other participants in the auction. The bidders’ objective is to minimise the maximal loss they could incur, building on the concept of minimax-regret.

## CONFERENCE AND SEMINAR PRESENTATIONS

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- 2021            World Congress of the Game Theory Society x 2 (postponed from 2020)
- 2020            World Congress of the Econometric Society,  
Student Microtheory Workshop, University of Oxford
- 2019            CESS Colloquium and Gorman Seminar, University of Oxford

## TEACHING

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- 2020            Game Theory, Microeconomics Analysis, and Core Microeconomics (undergraduate, PPE & Economics and Management, University of Oxford) - tutorials and small classes
- 2019 - 2020    Microeconomics (graduate, MSc in Financial Economics, University of Oxford) - one-to-one tuition
- Supervision: Undergraduate independent research (Oxford, 2020), co-supervision of MSc thesis in Financial Economics (Oxford, 2018)

## RESEARCH EXPERIENCE AND OTHER EMPLOYMENT

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- 2016 -            University of Oxford – Research assistant to Prof. Paul Klemperer
- 2016            University of California, Berkeley – Visiting Student, Economics
- 2015 - 2016    Paris Dauphine University – Research assistant to Prof. Anna Creti
- 2013 - 2014    The Chinese University of Hong Kong – Visiting Student, Economics and Mandarin Chinese
- 2012 - 2013    Karlsruhe Institute of Technology – Research assistant to Prof. Christof Weinhardt
- 2011            Allianz Inhouse Consulting – Intern, Allianz Deutschland AG, Munich

## AWARDS AND SCHOLARSHIPS

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- 2019 - 2020    Doctoral Bursary, Department of Economics, University of Oxford
- 2016 - 2019    Oxford-Jerry Hausman Graduate Scholarship | Funding for PhD at Nuffield College
- 2016            Fellowship for visit at UC Berkeley, American Foundation for the Paris School of Economics
- 2013 - 2014    Deutschlandstipendium, National Merit Scholarship
- 2013            Baden-Württemberg-STIPENDIUM, Merit Scholarship for visit at CUHK

## EXTRACURRICULAR

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- 2017 - 2019    GJCC chair and DPhil Representative, Department of Economics, University of Oxford
- 2016 - 2019    Equality Representative, Nuffield College, University of Oxford
- 2011 - 2013    KonsumGlobal Karlsruhe, Student association for sustainable consumption politics
- 2009 - 2010    Lecturer, Tutor, and IT management, Diocese of Mbinga, Tanzania

## OTHER

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Computer skills: Julia, LaTeX, Mathematica, Matlab, Python

Languages: German (native), English (business level), French (good), Swahili (good), Mandarin (basic)