Antoine Arnoud

Ph.D. candidate in Economics Yale University

version: November 2017

196 Crown St. — Apt 510 New Haven, CT, 06510, USA (+1) 980-320-0485 antoine.arnoud [at] yale.edu antoinearnoud.com

Education

2013 - present PhD. in Economics candidate, Yale University

Fields: Public Finance, Macroeconomics, Labor Economics

2013 M.S. in Economics (APE), Paris School of Economics

Visiting Scholar, U.C. Berkeley (2013)

Alliance Program Visiting Scholar, Columbia University (Summer 2012)

2010 M.Eng. in Mechanical Engineering, Tsinghua University, China

2008 Diplome d'Ingenieur, Ecole Polytechnique, France

Research in progress

Automation Threat and Wage Bargaining

This paper analyzes the impact of automation technologies on the US labor market. I show that automation technologies impacts wages even in the absence of adoption. The mere possibility to automate increases a firm's outside option in the wage bargaining and results in lower wages for workers. The effect propagates to all wages in the labor market through the outside option of the workers.

Data Matching With Optimal Transport Algorithm

This paper develops a new method to statistically match data from the same representative population and apply the method to income data. The paper shows that the choice of the matching method impacts the measure of income inequality.

Benchmarking Global Optimzers

with F. Guvenen and T. Kleineberg

This papers compares different algorithms commonly used for global optimization in economics.

The Sunk Cost effect: Theory and Empirical Evidence

Master's thesis, Paris School of Economics, 2013. Supervisor: J. Pouvet

This paper builds a dynamic inter-temporal model of consumption for durable good incorporating the sunk cost effect. The sunk cost effect impacts consumption via two channels: the amount spent for the purchase of the good and the time span since the payment. The model considers agents partially naive about the sunk cost effect: they anticipate its impact via the monetary channel, but not its evolution over time. The model predicts a non-negative probability of flat rate bias, an increase of consumption with the amount paid, and a diminishing consumption over time. The theory is confronted to a new dataset containing contractual choices and attendance records from 21 health clubs for more than 69,405 individuals. The analysis reveals that (1) more than 60% of the individuals suffer from flat rate bias and forego savings of 353 Euro during their membership on average; (2) the amount spent for membership increases gym attendance rate; and (3) gym attendance rate decreases with the time span since last payment. Whereas these findings cannot be simultaneously explained by competing theories, they are all predicted by the model developed in this paper.

Teaching

2016 Introductory Macroeconomics, Teaching Assistant

Instructor: Professor A. Tsyvinski

2015 Intermediate Macroeconomics, Teaching Assistant

Instructor: Professor M. Peters

2015 Introductory Macroeconomics, Teaching Assistant

Instructor: Professor A. Tsyvinski

2014 **Debates in Macroeconomics**, Teaching Assistant

Instructors: Professor A. Tsyvinski and Professor S. Roach

Academic Honors

2014 - 2015 Yale, Charles V. Hickox Fellowship Fund

2013 - 2014 Yale, Cowles Foundation and Economic Growth Center Fellowship

2012 American Foundation for PSE Scholarship (6 months)

2008 - 2010 The Distinguished International Students Scholarship

Two-year full scholarship, awarded by the Chinese Scholarship Council

2008 - 2010 Master's Degree Scholarship

Two-year scholarship co-awarded by Fondation de l'Ecole Polytechnique and Veolia Water

2009 SA Art & Sport Gold Medal

Medal awarded for outstanding contributions in student sport activities by the Administrative Vice Dean of Tsinghua University (China)

2008 Outstanding Leadership Award

Exceptional student in campus & leadership activities, awarded by the Head of Ecole Polytechnique

Professional Activities

Referee Journal of the European Economic Association

Activity:

Conferences: Organizizer: Globalization, Inequalities and the Crisis in Economics

(Institute for New Economic Thinking - Young Scholars Initiative Conference)

Computer Skills

Languages: VBA, java, C++, Fortran, R, Python, LATEX Softwares: Stata, Matlab, Solidworks, Fluent, Infoworks

Languages

French (native) English (fluent) German (advanced) Chinese (advanced) Korean (basics)