

# JEREMY ZUCHUAT

PhD Candidate, University of Lausanne

**Address** : Internef, Office 556, 1015 Chavannes-près-Renens, Switzerland

**Born** : 11.08.1994

**Nationality** : Swiss

✉ : [jeremy.zuchuat@unil.ch](mailto:jeremy.zuchuat@unil.ch)

☎ : +41 77 435 96 71

🌐 : [jeremyzuchuat.github.io](https://github.com/jeremyzuchuat)

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## EDUCATION

- 09/18 – cont.      **University of Lausanne (HEC), Department of Economics, PhD in Economics**  
- Research Interests : *Applied Microeconomics, Labor Economics (Job Search Dynamics, Labor Programs Evaluation), Public Economics (Local Taxation)*  
- Advisor : Pr. Rafael Lalive  
- Expected Completion Date : Spring 2023
- 09/18 – 08/19      **Study Center Gerzensee, Swiss Program for Beginning Doctoral Students in Economics, GPA 5.7/6.0**
- 09/16 – 06/18      **University of Lausanne (HEC), Master of Science in Economics, GPA 6.0/6.0**
- 09/13 – 06/16      **University of Lausanne (HEC), Bachelor of Science in Economics, GPA 5.9/6.0**
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## ONGOING RESEARCH

### How Vacancy Referrals affect Job Search : Evidence from Job Applications Data

*Abstract* : Job vacancy referrals from caseworkers represent a widely-used job search assistance tool in public employment service. The detailed mechanisms through which this policy affects job finding remain however unclear. In this paper, we use large-scale administrative data to study how referrals impact job search activity and success. Based on granular applications data and a within-estimation approach, we study the effects of this policy on application-level outcomes. Our results show that referred applications have higher chance of leading to a callback and a job offer, conditional on individual-duration fixed effects. Treated applications are also found to target more often part-time positions in job seekers' desired occupational sectors. Using data aggregated to the individual-monthly level, we study the effects of the policy on job search effort and labor market matching. Instrumenting referrals with caseworker stringency, we find that the policy has a slight negative impact on the monthly number of personal applications, while it increases markedly the total monthly application rate. The positive effects on application success and effort provision translate into a large increase in the monthly number of job interviews and job offers.

### Commuting and Income Sorting in Fiscally Decentralized Cities, with Nicola Mauri

*Abstract* : How does local-level fiscal decentralization shape commuting and spatial income sorting? We develop a structural model of individual location choices in a fiscally decentralized monocentric city with explicit commuting costs. Income sorting arises from non-homothetic housing preferences combined with decentralized progressive income taxation. Progressivity of local taxes affects the willingness to commute of high-income individuals more than that of low incomes. This induces high-income individuals to be more willing to commute to low-tax jurisdictions. These predictions are confirmed using micro-level data on moving decisions in Switzerland. Based on a random utility framework, we find that high-income individuals tend to be less sensitive to commuting and that lower local taxes directly increase individuals' willingness to commute. In a counterfactual exercise, we show that uniform taxation within the urban areas would lead to more high-income individuals choosing to locate in the central jurisdictions.

### How Job Applications, Employer Callbacks, and Successful Interviews Shape the Job Offer Arrival Rate, with Rafael Lalive, Aderonke Osikominu, Josef Zweimüller

*Abstract* : The chances of leaving unemployment tend to fall over time, but how job applications and their success contribute to negative duration dependence is not well understood. We use monthly data from job search diaries for several thousand job seekers, which record applications sent by each job seeker, along with employer callbacks and job offers. We find that both the number of applications and the chances of a callback decrease over the course of the unemployment spell. However, the chances of receiving a job offer after being interviewed does not fall, and seems to be slightly increasing even. These patterns are consistent with employers selecting interviewees based on information that is observable, but offering jobs to people based on new information, revealed during the interview. Declining job applications, and declining success of applications both account for all of the duration dependence in the job offer arrival rate.

### **Estimating Duration Dependence with Longitudinal Data : the Within-Estimation Duration Bias**

*Abstract* : Recent developments in the empirical labor economics literature have made use of individual longitudinal data to study job search dynamics and duration dependence relationships. Such data are supposed to enable researchers to adequately control for (time-constant) unobserved characteristics, a potential severe source of dynamic selection, through the use of fixed effects models. However, the within-transformation that is at the core of this estimation process might generate undesirable mechanical correlation between the error term and the independent variable of interest, *i.e.* the time dimension itself. In this paper, we derive the condition under which the within-estimator can be applied to validly estimate duration dependence relationships. Through Monte-Carlo simulations, we show that the extent of the so-called within-estimation duration bias can be extremely large. Those results naturally extend to any study context where longitudinal data are used to measure duration dependence relationships.

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## **POLICY WORK EXPERIENCE**

- 06/20 – 12/21     **Institut d'Economie Appliquée (CREA)**, *Scientific collaborator*  
Mandate for the *Direction Générale de la Cohésion Sociale (DGCS)*, *Etat de Vaud*.  
Series of policy reports on the economic impact of COVID 19 on the social aid program in the canton de Vaud (macroeconomic and microeconomic analyses).
- 09/16 – 09/18     **University of Lausanne (HEC)**, *Research assistant*  
Creation and management of microeconomic datasets for a project on job search.  
Redaction of a descriptive report for the *State Secretariat for Economic Affairs SECO* on job search patterns in the Swiss labor market.

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## **TEACHING EXPERIENCE**

- 09/18 – cont.     **University of Lausanne (HEC)**, *Graduate Teaching Assistant*  
*Recherche Empirique en Management et Economie*, Bachelor (Spring 2020-2022)  
*Analyse Economique : Macroéconomie*, Bachelor (Fall 2018-2022)  
*Statistique et Econometrie Appliquée : Introduction*, Bachelor (Spring 2018-2019)
- 09/14 – 06/18     **University of Lausanne (HEC)**, *Student Teaching Assistant*  
*Recherche Empirique en Management et Economie*, Bachelor (Spring 2017-2018)  
*Analyse Economique : Macroéconomie*, Bachelor (Fall 2016-2017)  
*Econometrics*, Master (Fall 2017)  
*Economie Politique : Microéconomie*, Bachelor (Fall 2014)

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## **ADDITIONAL TRAINING**

- 2022                **Advanced Policy Analysis Seminar**, *University of Lausanne*

by Pascal St.-Amour and Rafael Lalive

2021 **Winter School in Data Analytics and Machine Learning**, *University of Fribourg*  
by Martin Huber and Helge Lieber

2020 **Discrete Choice Analysis**, *Ecole Polytechnique Fédérale de Lausanne*  
by Moshe E. Ben-Akiva and Michel Bierlaire

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## CONFERENCE AND SEMINAR PRESENTATIONS

2022 *Swiss Society of Economics and Statistics*, University of Fribourg, Switzerland ; *Zürich-Lausanne Workshop : Job Search and the Labor Market*, Hertenstein, Switzerland ; *Young Swiss Economists Meeting*, KOF & ETH Zurich, Switzerland ; *Econ GSW Webinar Series for Graduate Students*, Virtual ; *Research Days*, University of Lausanne, Switzerland.

2021 *Swiss Workshop on Local Public Finance and Regional Economics*, University of Lugano, Switzerland ; *Research Days*, University of Lausanne, Switzerland.

2020 *Research Days*, University of Lausanne, Switzerland.

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## AWARDS AND HONORS

2021 *Econometric Game*, Amsterdam, HEC Lausanne, Team leader (Top 10)

2018 *Prix de Faculté (MScE)*, HEC Lausanne, Best GPA of the Master in Economics

2017 *Econometric Game*, Amsterdam, HEC Lausanne, Team member

2016 *Prix de la Faculté des HEC (BSc)*, Best GPA of the Bachelor Program

2016 *Prix de la Faculté des HEC (3<sup>rd</sup> Year BSc)*, Best GPA (3<sup>d</sup> Year of the Bachelor Program)

2016 *Prix Ernst & Young SA*, HEC Lausanne

2015 *Prix de la Faculté des HEC (2<sup>d</sup> Year BSc)*, Best GPA (2<sup>d</sup> Year of the Bachelor Program)

2014 *Prix de l'Association des Alumni HEC*, Best GPA (1<sup>st</sup> Year of the Bachelor Program)

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## EXTRACURRICULAR ACTIVITIES

02/22 – cont. **Labor Reading Group**, HEC Lausanne, *Administrator*

09/19 – cont. **Faculty Council**, HEC Lausanne, *Representative of the Intermediary Body*

05/17 – 09/20 **La Grange**, *Secretary of the Association Committee*  
*La Grange* is an association active in the event sector (music and culture) in Valais (CH).

02/17 – 02/20 **Uthink (Student Think Tank)**, *Member of the Seminars & Votations Department*  
*Uthink* is a student-based association aiming to make academic research and information on public-interest topics accessible.

09/06 – cont. **Fanfare la Rose des Alpes de Savièse**, *Member and Musician*

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## SKILLS

**Software:** Stata, R, Python, QJIS, Excel, Matlab

**Word Processing:** L<sup>A</sup>T<sub>E</sub>X, Microsoft Office

**Analytical:** Causal Analysis Methods, Data Management, Data Vizualiton, Machine Learning, Discrete Choice Modelling, Spatial Data

**Languages:** French (native), English (fluent), German (intermediate)

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## HOBBIES

Ski touring, Cycling (road and mountain bike), Running, Photography, Music (trombone)

*(Last update : October 2022)*