



The Effects of Student Aid - Evidence from Germany

DRAFT - Master's Thesis
in Economics (Science Track)

by

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Submission date: 31.07.2024

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Abstract

LIPSUM

Acknowledgement

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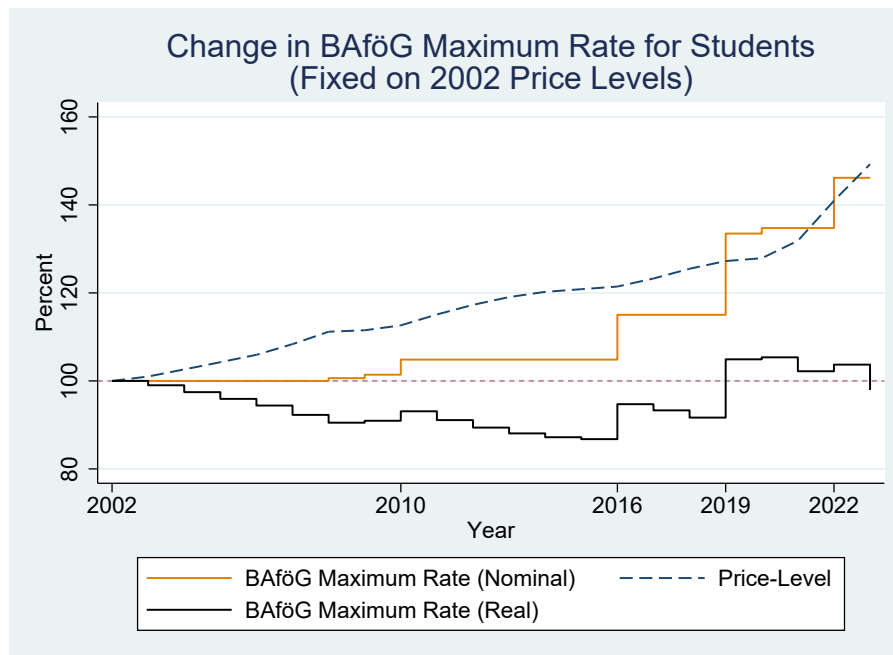
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1 Introduction

2 Theoretical Framework

2.1 BAfoeG in Germany

- **Means-Based Testing:** Explaining the "Calculation Algorithm".
- **Algorithm Overview:** Brief explanation highlighting the essential parameters.
([Create Table of Parameters in Appendix](#))
- **Parameter Modifications & Policy Reforms:** Real vs. nominal changes.



Change also holds for other parameters

2.2 The Student's Decisions

1. Decision to enter the state: Study vs. Work
2. Decision to leave state: (i) Ability to finish program &

3 Data and Descriptive Statistics

- SOEP \Rightarrow
- Data Cleaning
 - Starting with 2002, because prior too many "filler students". Year $y \in [2002, 2019] \Rightarrow$ pre Covid.
 - Imputations (e.g. Heckman correction for missing wages in specific waves) \Rightarrow Optimal Behavior e.g. "Steuerklassen"
 - Discussion: Left- & Right-censored students & Students without Parents in Sample

Table 1: Summary Statistics Students (2002 - 2019)

Variable	Obs.	Mean	Std. Dev.	Min.	Max.
<i>Individual Characteristics:</i>					
Age	12997	23.6612	3.359	17	35
Male	12997	.4853	.4998	0	1
Migration Background	12997	.2258	.4181	0	1
First Gen	12997	.3393	.4735	0	1
<i>Academic:</i>					
University	12997	.7271	.4455	0	1
Polytechnic	12997	.2341	.4234	0	1
Work Academy	12997	.0279	.1646	0	1
Year in University	12997	3.3850	2.372	1	16
<i>Income:</i>					
Inc. Student (€, Gross, Mth.)	12997	613.2629	922.676	0	12073
Labor Supply	12997	.4977	.5	0	1
Labor Supply (Weekly Hours)	6469	21.0649	12.8832	1	40
Inc. Father (€, Gross, Mth.)	12997	4093.2365	5194.5459	0	92317.5
Inc. Mother (€, Gross, Mth.)	12997	1786.9277	2277.8298	0	72000
<i>BAfoeG:</i>					
Student Grants (SOEP)	12997	.2333	.4229	0	1
Student Grants (€, Mth.)	2173	430.8242	241.6607	10	3000
BAfoeG (simulated)	12997	.3144	.4643	0	1
BAfoeG (€, Mth.)	4086	360.0500	206.1949	10.3133	2599
Eligible for BAfoeG	12997	.8927	.3094	0	1

Note: This includes every individual who studied for at least one semester in the respective year. Consequently, individuals appearing in j study years influence the mean with a weighting of j/n . Student Grants include state funding (BAfoeG) as well as other forms of stipends. BAfoeG amounts are calculated under the assumption of optimal behavior and always assume an application is made if the amount is greater than zero. Therefore, these figures may be higher than the actual amounts received.

- BAfoeG Simulated vs. Actual

- [See for Share actual vs. simulated details per year](#)
- Discussion where difference might stem from
- Discussion Approach

4 Empirical Framework

The Game-Plan:

1. Plain Cost Estimation

- (a) Estimate the costs of BAfoeG per Year \Rightarrow suppose an Income-Tax-Change to finance this costs \Rightarrow take ε from the Literature \Rightarrow End up with Monetary + Labor Supply Costs

2. Benefit Side:

- (a) Decision to start study

- General
- Only Students which qualify for BAfoeG (Probit/OLS - LPM)
- Share First Generation Students

- (b) Decision to end study

4.1 Costs

4.2 Benefits

5 Results

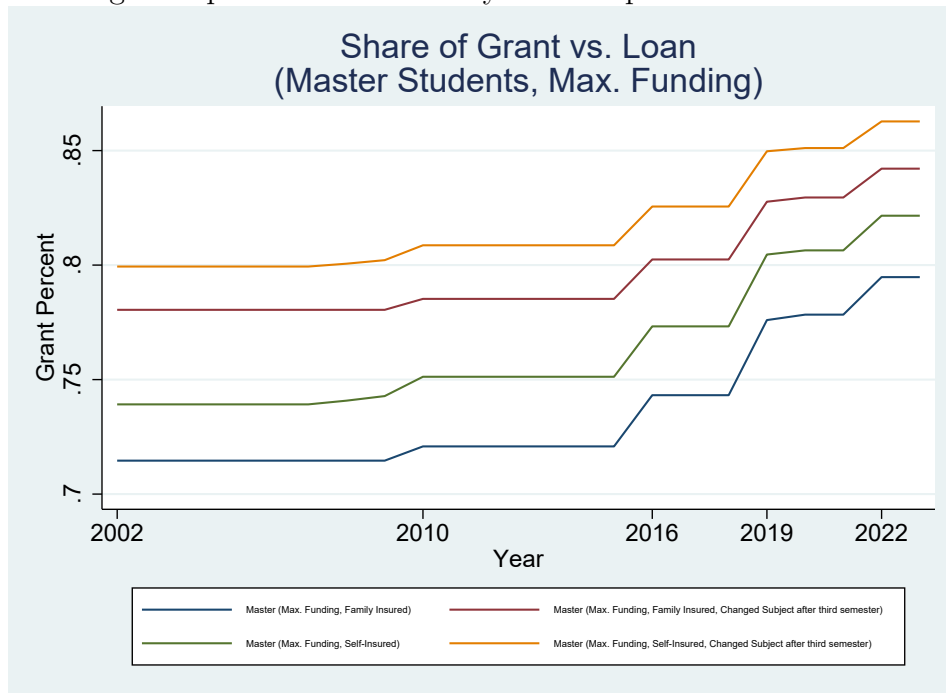
5.1 Costs

5.2 Benefits

6 Discussion and Limitations

Collection of Limitations

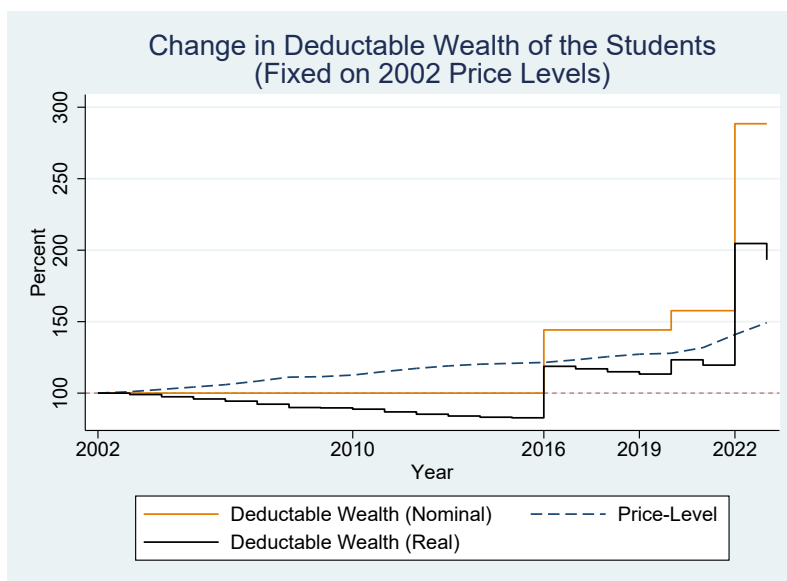
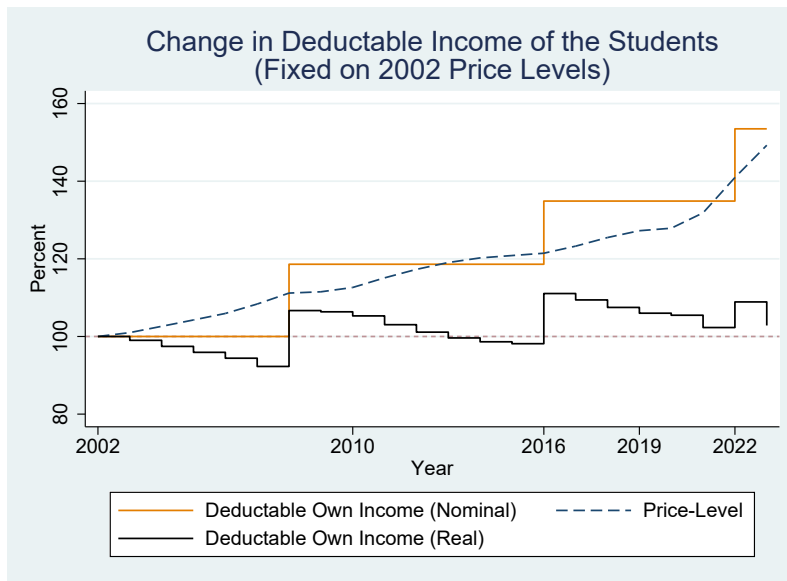
- The forgotten parameter: The "Pay-Back-Cap"



- Benefit Side cannot measure: (i) Skill (ii) Buraucrty costs & (iii) Effects of Uncertainty/Certainty on students
- Search & Matching in this thesis excluded.
- Causal Diagram to highlight the imposed orthogonality assumptions.

7 Summary and Concluding Remarks

A Further Figures



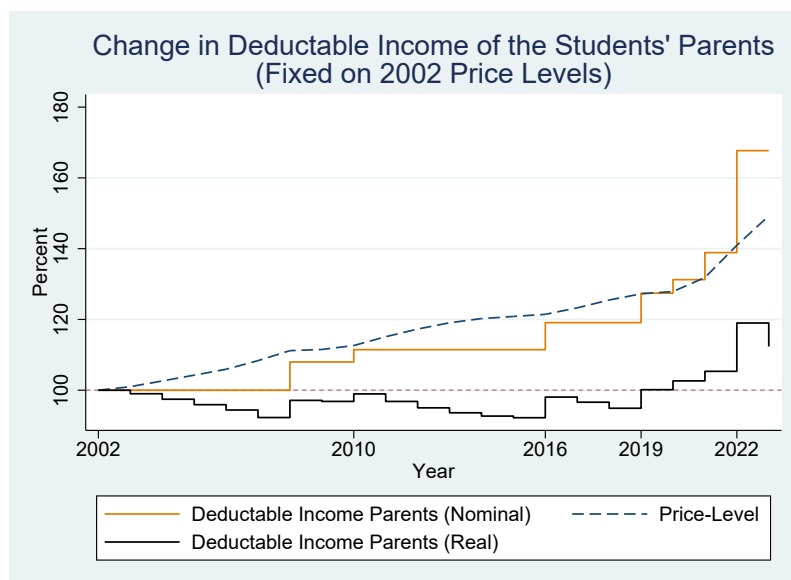


Table 2: Share of BAfoeG Recipients per Year - Actual vs. Simulated

Variable	Obs.	Mean	Std. Dev.	Min.	Max.
<i>Received Student Grants (actual)</i>	14008	.2219	.4155	0	1
- 2002	650	.2154	.4114	0	1
- 2003	677	.2482	.4323	0	1
- 2004	721	.2455	.4307	0	1
- 2005	705	.2071	.4055	0	1
- 2006	699	.2289	.4204	0	1
- 2007	692	.2023	.402	0	1
- 2008	664	.2154	.4114	0	1
- 2009	656	.2256	.4183	0	1
- 2010	682	.2229	.4165	0	1
- 2011	718	.2493	.4329	0	1
- 2012	719	.2643	.4412	0	1
- 2013	836	.2656	.4419	0	1
- 2014	857	.2287	.4202	0	1
- 2015	906	.223	.4165	0	1
- 2016	886	.2257	.4183	0	1
- 2017	1001	.2008	.4008	0	1
- 2018	994	.1801	.3844	0	1
- 2019	945	.1746	.3798	0	1
<i>BAfoeG (simulated)</i>	14008	.2939	.4556	0	1
- 2002	650	.3138	.4644	0	1
- 2003	677	.3235	.4682	0	1
- 2004	721	.2691	.4438	0	1
- 2005	705	.2454	.4306	0	1
- 2006	699	.2403	.4276	0	1
- 2007	692	.2269	.4191	0	1
- 2008	664	.2455	.4307	0	1
- 2009	656	.2607	.4393	0	1
- 2010	682	.2859	.4522	0	1
- 2011	718	.3008	.4589	0	1
- 2012	719	.3004	.4588	0	1
- 2013	836	.3553	.4789	0	1
- 2014	857	.3069	.4615	0	1
- 2015	906	.3079	.4619	0	1
- 2016	886	.342	.4746	0	1
- 2017	1001	.3147	.4646	0	1
- 2018	994	.3048	.4606	0	1
- 2019	945	.2974	.4573	0	1

Note: Student Grants include state funding (BAfoeG) as well as other forms of stipends. BAfoeG amounts are calculated under the assumption of optimal behavior and always assume an application is made if the amount is greater than zero. Therefore, these figures may be higher than the actual amounts received.