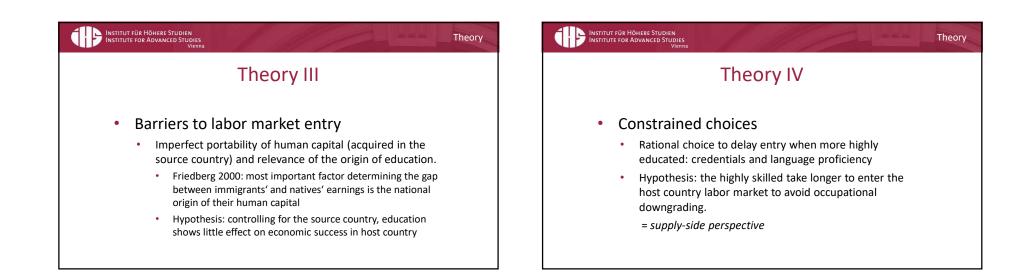
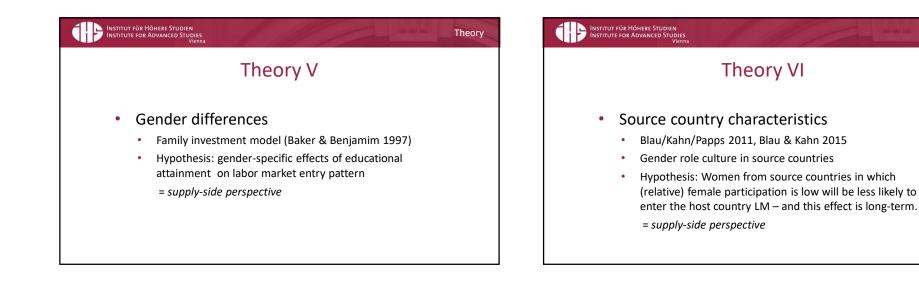
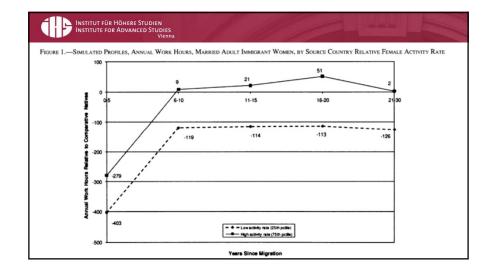


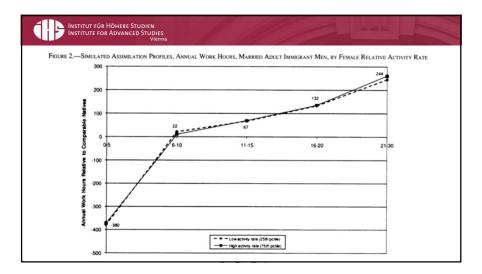
Theory

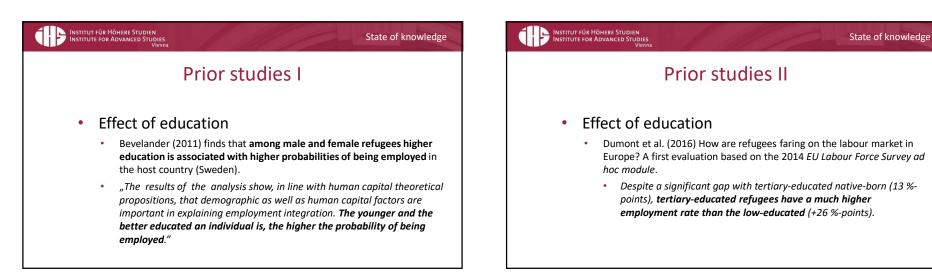




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# INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES

# State of knowledge

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# **Prior studies III**

### Effect of education •

- Hartog and Zorlu (2009) Using register data on refugees admitted to the NL in the period 1990-2001. "The most remarkable finding is the **absence** of returns to higher education" – finding: education beyond secondary schooling does not yield any significant monetary returns within the first 5 years in the Dutch labour market.
- Zorlu (2014): Based on Dutch LFS finds no effect of (foreign) education for immigrants in NL (outcome: adjustment profile).

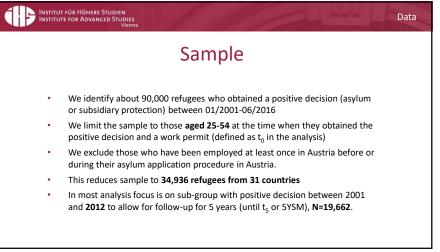
# INSTITUT FÜR HÖHERE STUDIEN State of knowledge INSTITUTE FOR ADVANCED STUDIES **Prior studies IV** Effect of education Rodríguez-Planas (2012) Evidence from Spanish LFS data that skilled

immigrants in Spain do not assimilate as well as low skilled ones. "In

Spain having a high-school degree does not give immigrants an

advantage in terms of wage or occupational assimilation."

Institut für Höhere Studien Institute for Advanced Studies INSTITUT FÜR HÖHERE STUDIEN State of knowledge **Prior studies V** Problem of over-education ٠ Dumont et al. (2016) 2014 EU Labour Force Survey ad hoc module. "Refugees are much more likely to be overqualified than other migrants." "In total, almost 60% of employed tertiary-educated refugees in the EU are overqualified for the jobs they occupy, more than twice the level of the native-born and also well above the levels for other migrant groups." .



Data

# INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

Data

# Sample 5YSM

## Table: Description of sample: refugees with positive decisions 2001-2012

	In %	In %	In %
	ALL	WOMEN	MEN
Sex			
Female	40.2	100	0
Age			
25-34	51.9	47.5	54.9
35-44	34.0	36.5	32.3
45-54	14.1	16.0	12.7

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# Sample 5YSM

## Table: Description of sample: refugees with positive decisions 2001-2012

	In %	In %	In %
	ALL	WOMEN	MEN
Education			
Less than compulsory	15.9	17.5	14.8
Compulsory	58.6	57.0	59.7
Vocational school/apprenticeship	5.8	5.0	6.4
Maturation	4.6	5.3	4.1
Tertiary degree	3.9	4.7	3.4
Education missing	11.1	10.5	11.5

# INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

Data

# Sample: source countries 5YSM

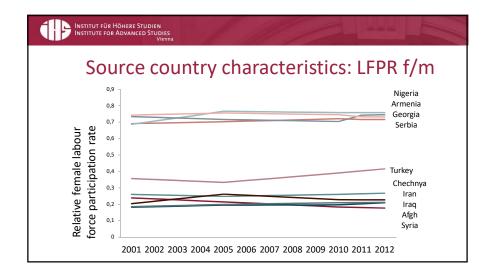
	In %	In %	In %
	ALL	WOMEN	MEN
Source country (10 most important)			
Russian Federation = Chechnya	27.4	35.1	22.3
Serbia/Kosovo/Montenegro	12.4	11.3	13.2
Afghanistan	9.6	9.9	9.4
Iran (Islamic Republic of)	7.2	6.2	7.9
Turkey	5.5	4.0	6.5
Nigeria	5.4	3.1	6.9
Armenia	3.7	5.0	2.9
Iraq	3.7	3.2	4.1
Syrian Arab Republic	3.3	2.1	4.1
Georgia	2.8	3.6	2.2

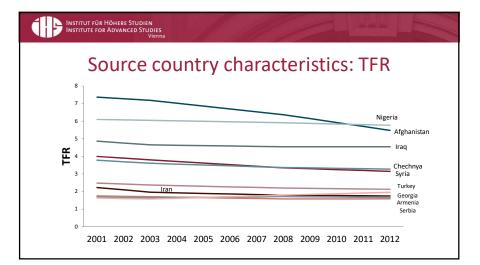
# INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

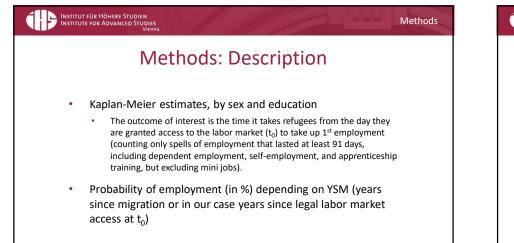
Data

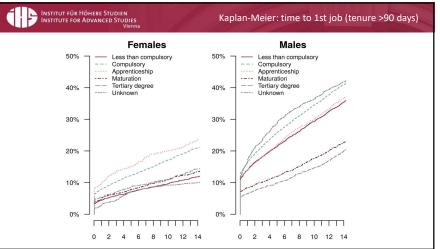
# Source country characteristics

	F-LFPR	M-LFPR	F/M	TFR	Duration of
	(2001-12)	(2001-12)	(2001-12)	(2001-12)	asylum proc
Source country					
Chechnya	-	-	-	3.4	2.3
Serbia	44.0	62.3	0.71	1.6	2.4
Afghanistan	16.5	84.1	0.20	6.3	2.0
Iran	17.0	72.2	0.24	1.9	2.0
Turkey	25.9	70.7	0.37	2.2	2.8
Nigeria	47.5	63.0	0.75	5.9	3.0
Armenia	51.3	70.9	0.72	1.7	4.4
Iraq	14.1	69.2	0.20	4.6	1.6
Syrian Arab Republic	13.7	73.4	0.19	3.3	2.1
Georgia	56.1	75.3	0.74	1.8	3.8









### % employed by time since $t_{\scriptscriptstyle 0}$ $\sim$ Female Male œ œ. employment probability 5.5 р Ф nent O employm 1.2. 0 0 0 20 40 months since migration 60 0 20 40 months since migration 60 comp - <comp</p> comp <comp VOC - mat voc mat tert tert

# INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Methods Methods: Modelling Regression (logistic and linear) Outcomes of interest: probability of employment 5 years after LM access (ts), . days in employment within the first 5 years after LM access. The core predictor is education (covariates: age and marital status) . Year and country fixed effects (to account for time-invariant differences across source countries and for time trends that were shared by all refugees). Multilevel model (3-level, countries observed over 12 years) . In line with the literature (Blau et al., 2011; Blau and Kahn, 2015), the labor force participation rate (LFPR) of females relative to that of males in the source country is used as an indicator of gender role culture.

Covariates: labor market tightness at the regional level, TFR at macro level.

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# Logistic regression employment probability at t5 (5 YSM)

	Female Model 1			Fema	2 (FE)	
	Coef	SE	p-value	Coef	SE	p-value
Education (ref: Compulsory)						
Less than compulsory	-0.40	0.08	0.000	-0.25	0.08	0.002
Vocational school/ apprenticeship	0.08	0.13	0.539	0.16	0.13	0.213
Maturation	-0.27	0.13	0.034	-0.19	0.13	0.142
Tertiary degree	-0.15	0.13	0.269	-0.12	0.14	0.408
Education missing	-0.67	0.27	0.014	-0.86	0.27	0.002

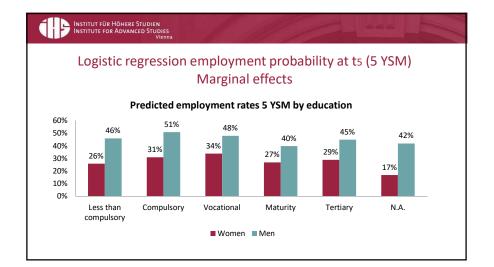
Covariates: Model 1: age in 6 groups and marital status (married, cohabiting, divorced, windowed) Model 2 as in Model 2 but including country fixed effects and time fixed effects

# INSTITUT FÜR HÖHERE STUDIEN

# Logistic regression employment probability at t5 (5 YSM)

	Male Model 1			Male Model 2 (FE)		
	Coef	SE	p-value	Coef	SE	p-value
Education (ref: Compulsory)						
Less than compulsory	-0.25	0.06	0.000	-0.23	0.06	0.000
Vocational school/ apprenticeship	-0.12	0.08	0.153	-0.17	0.09	0.060
Maturation	-0.50	0.11	0.000	-0.51	0.11	0.000
Tertiary degree	-0.34	0.12	0.004	-0.27	0.12	0.026
Education missing	-0.26	0.16	0.103	-0.43	0.16	0.009

Covariates: Model 1: age in 6 groups and marital status (married, cohabiting, divorced, windowed) Model 2 as in Model 2 but including country fixed effects and time fixed effects.

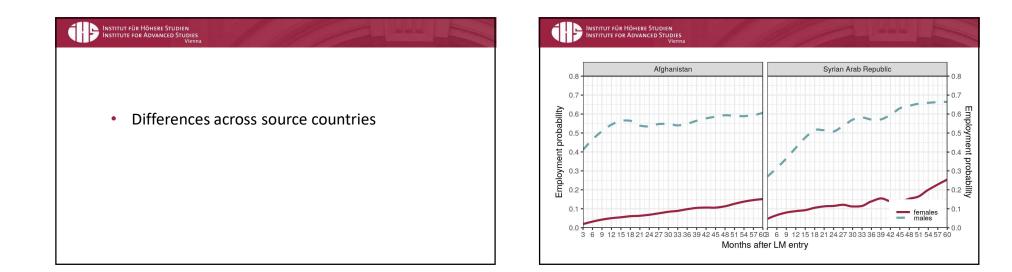


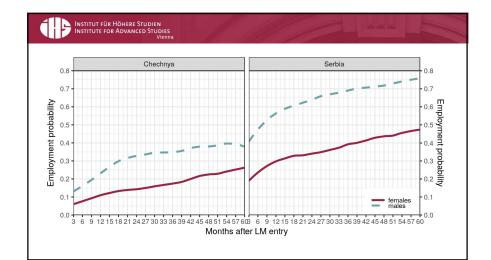
### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES

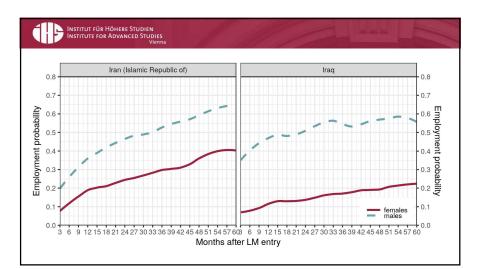
# Linear regression sum of days in employment to-ts

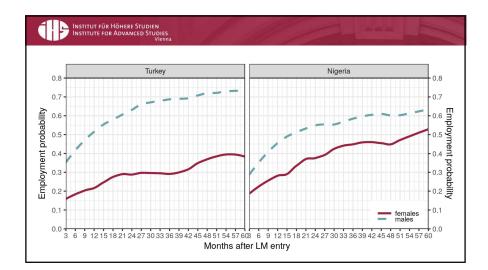
	Male				Female	iale	
	Coef	SE	p-value	Coef	SE	p-value	
Education (ref: Compulsory)							
Less than compulsory	-94.6	15.3	0.000	-81.3	15.0	0.000	
Vocational school/ apprenticeship	-82.0	21.5	0.000	-16.1	26.1	0.538	
Maturation	-136.3	26.7	0.000	-37.8	24.8	0.127	
Tertiary degree	-211.8	29.6	0.000	-43.0	26.6	0.106	
Education missing	-107.7	40.8	0.008	-173.6	49.8	0.000	

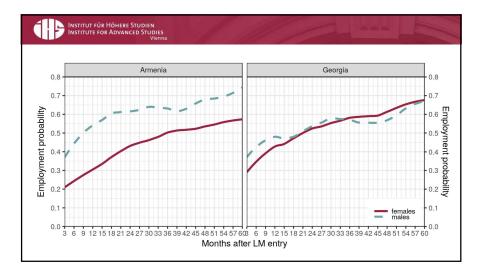
Covariates: age in 6 groups and marital status, country and time fixed effects

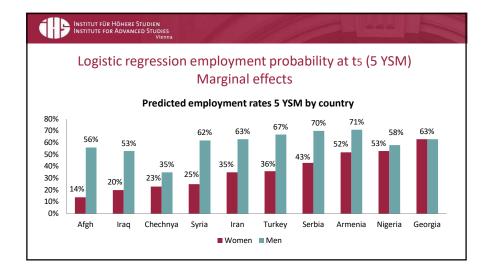












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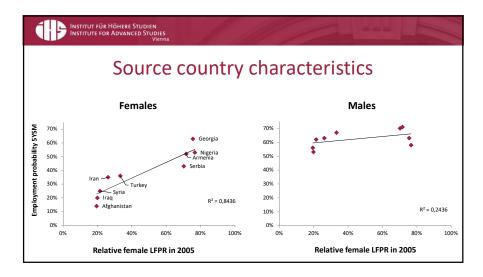
• Role of source country characteristics?

### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

Multilevel model: employment probability at t5 (5 YSM)

		Male			Female		
	Coef	SE	p-value	Coef	SE	p-value	
Source country characteristics							
Relative female LFPR	0.017	0.058	0.773	0.420	0.064	0.000	
TFR	-0.017	0.007	0.023	-0.012	0.008	0.144	
Covariates							
Regional labour market pressure	-0.005	0.001	0.000	-0.001	0.001	0.199	
Duration asylum proc (in yrs)	0.012	0.003	0.000	0.015	0.004	0.000	

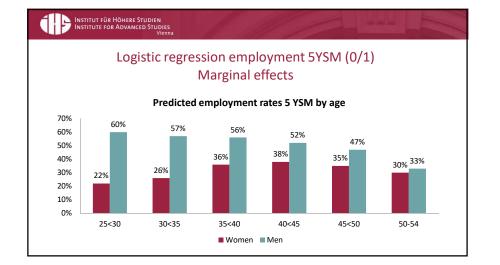
Sample: Nine countries measured over 12 years -> 3-level random intercept model (linear model)



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# Description of the provided and the provided and





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	Vienna	
		-

Conclusions about education effects valid for all countries? Coefficients from linear models, males									
	Afgh	Chechn	Serbia	Turkey	Syria	Iraq	Nigeria	Iran	
< comp	-0.12**	-0.02	-0.03	-0.01	-0.07	-0.08	-0.04	-0.04	
Comp	ref	ref	ref	ref	ref	ref	ref	ref	
Higher	-0.07	-0.05*	-0.10**	-0.21**	-0.13*	-0.04	-0.01	-0.05	
	1,075	2,595	1,658	806	476	468	821	915	
Dep: Proba	ability of empl	oyed at 5YSN	Л. Controls: a	ige, and year	of entry				

### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

Conclusions about education effects valid for all countries? Coefficients from linear models, females

	Afgh	Chechn	Serbia	Turkey	Syria	Iraq	Nigeria	Iran	
< comp	-0.08**	-0.05*	-0.08+	-0.03	-	-0.04	-	0.05	
Comp	ref	ref	ref	ref	ref	ref	ref	ref	
Higher	-0.03	0.01	-	-	-	-	-	0.03	
	802	2,768	905	324	146	253	254	490	
Dep: Proba	Dep: Probability of employed at 5YSM. Controls: age, and year of entry. Coefs only reported when n>50								

### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

# Linear regression annual income in t5 (5 YSM)

	Male			Female		
	Coef	SE	p-value	Coef	SE	p-value
Education (ref: Compulsory)						
Less than compulsory	-585	292	0.045	-99	333	0.767
Vocational school/ apprenticeship	56	394	0.888	-134	521	0.796
Maturation	-2,547	490	0.000	-224	492	0.649
Tertiary degree	-1,815	547	0.001	428	531	0.420
Education missing	1,855	908	0.041	3,022	1302	0.020
Const	16,091	804	0.000	10,133	1204	0.000

Sample: those employed at least one day in the corresponding year t5, N=8,066 male and 4,279 female refugees

### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES Vienna

# Linear regression annual income in t10 (10 YSM)

	Male				Female		
	Coef	SE	p-value	Coef	SE	p-value	
Education (ref: Compulsory)							
Less than compulsory	775	478	0.105	-169	442	0.702	
Vocational school/ apprenticeship	387	575	0.501	187	666	0.779	
Maturation	-3,540	776	0.000	23	678	0.973	
Tertiary degree	-290	856	0.735	1,380	753	0.067	
Education missing	1,687	1,365	0.217	404	2,404	0.866	
Const	20,658	1,423	0.000	11,956	1,992	0.000	

Covariates: age in 6 groups and marital status, country and time fixed effects

Annual income 5 years after entry ranges from zero up to EUR 60,000, median is 16,000

Sample: those employed at least one day in the corresponding year t5, N=4,296 male and 2,250 female refugees

### INSTITUT FÜR HÖHERE STUDIEN INSTITUTE FOR ADVANCED STUDIES

# Statistical analysis of the determinants of the duration of the asylum procedure (linear regression)

- Year of entry: Increased from about half a year in 2001/02 to about 1 year in 2003/04, to 4 years in 2011, then drop to 3.4 in 2012
- Shortest in Syria and Iraq (1-1.5 yrs), medium in Chechnya, Afghanistan, Serbia, Iran, Turkey (2-2.5), longest in Nigeria, Armenia, Georgia (> 3 yrs)
- Duration is shorter for more highly educated refugees (2.5 yrs on average among those without compulsory education versus 2.0 for those with university degrees) – but control for duration does not alter the general conclusions about education effects reported earlier
- It takes longer for older refugees (from about 2 yrs to about 3 yrs)
- No sex differences either in level or determinants

