

Appendix: Court Counsellor to Berlin Bohemian: Geography and Age in German Literary Production

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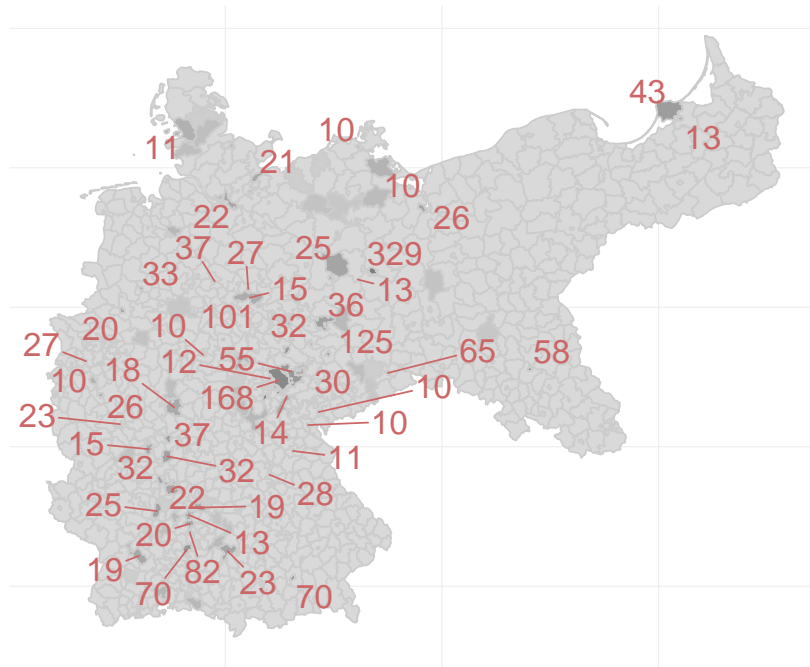
1 Figures

*TU Dortmund

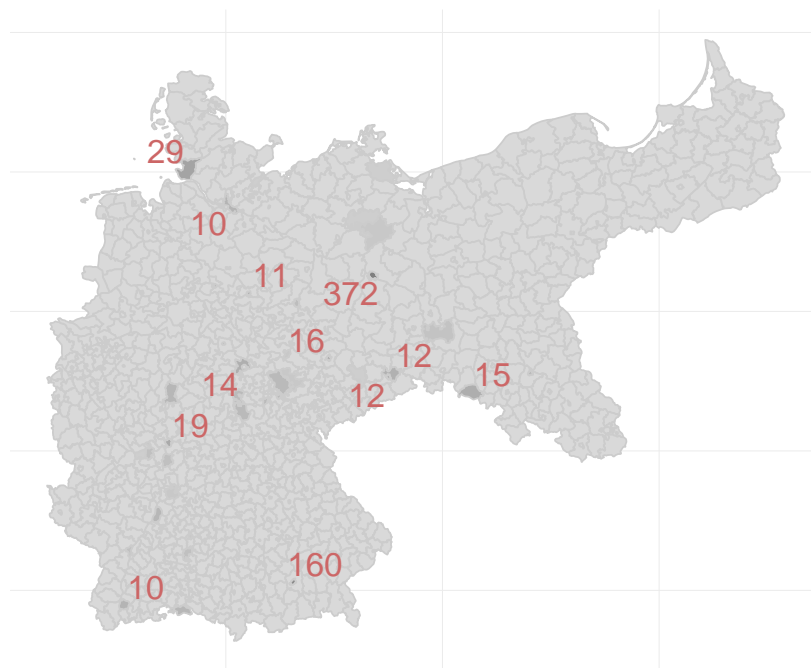
†Trinity College Dublin

Figure 1: Years of writers aged 18 to 50 per location

(a) Before unification



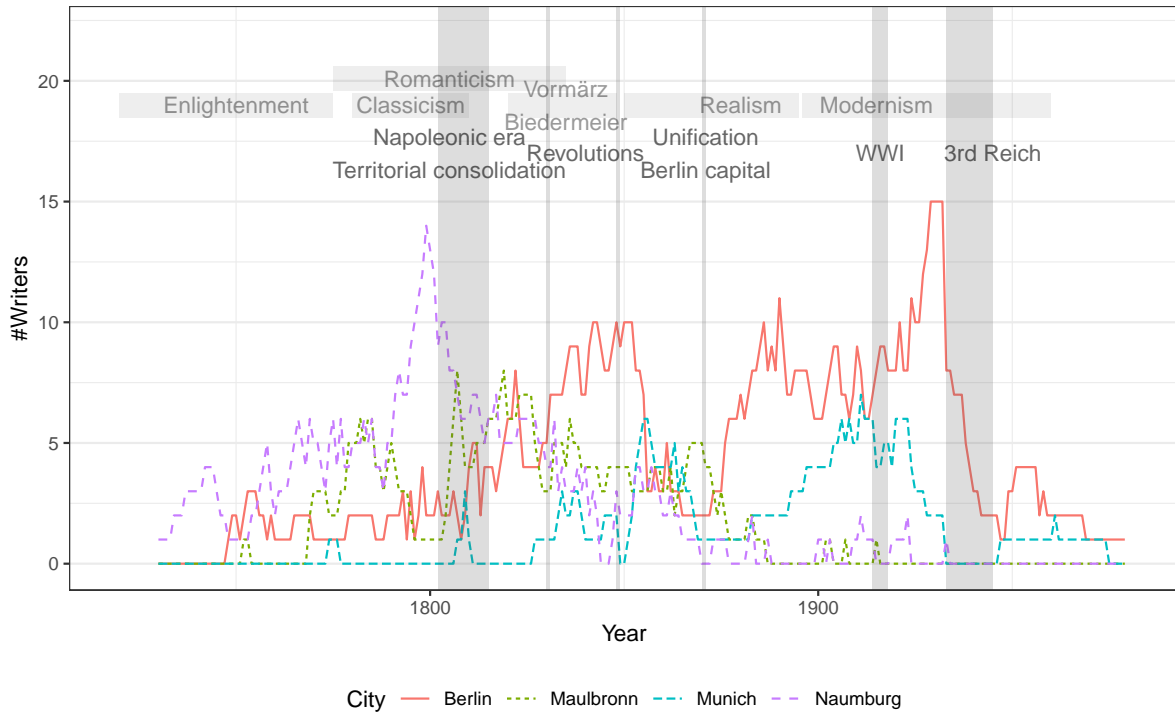
(b) After Unification



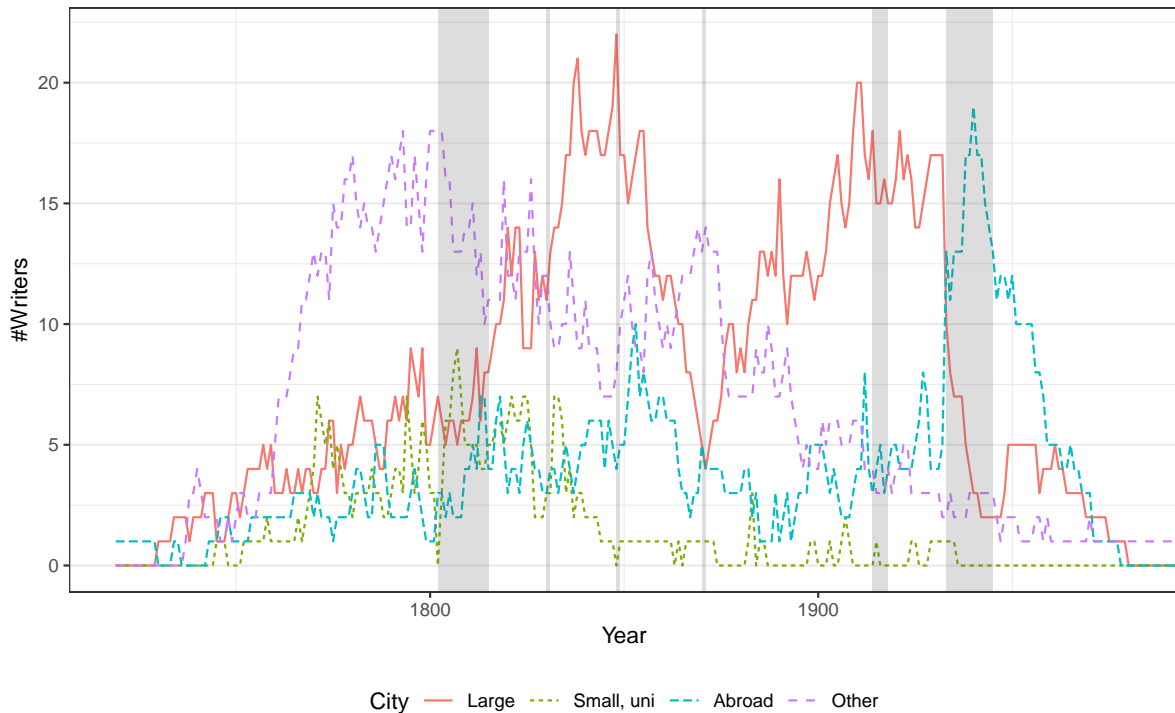
Notes: The maps show the sum of years that German writers reside in a district before and after the unification in 1871. Numbers are shown for districts with more than nine writer-years.

Figure 2: Location by year by agglomeration and city type

(a) Agglomerations



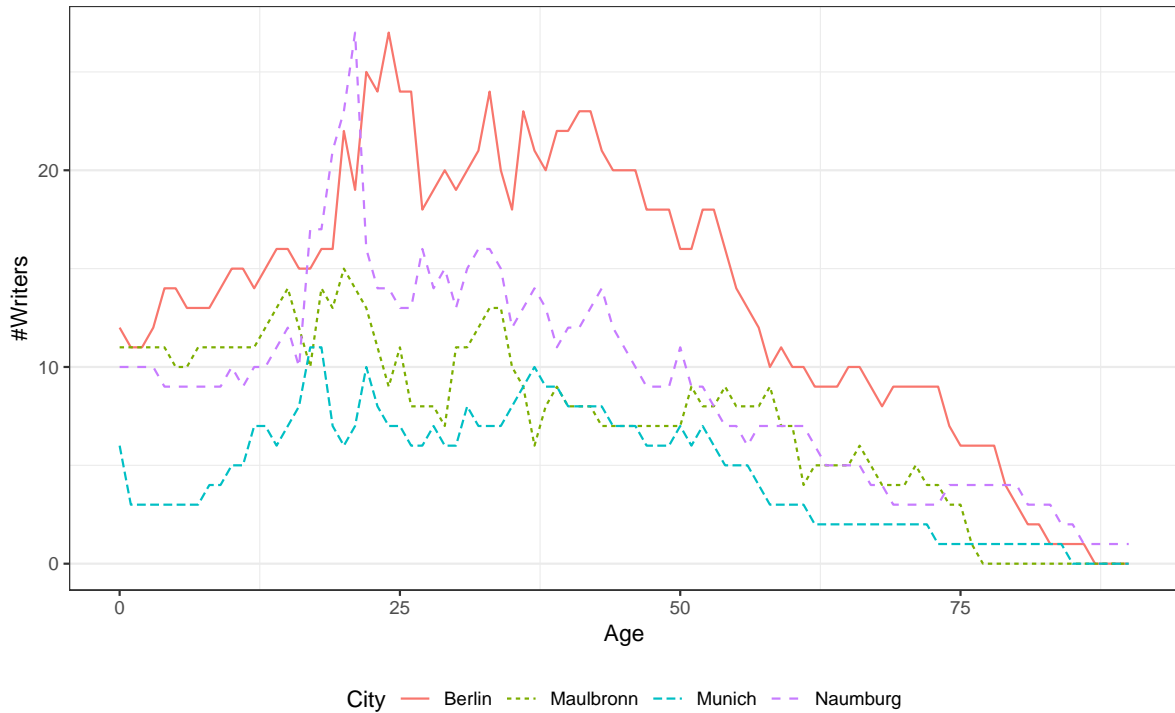
(b) Categories



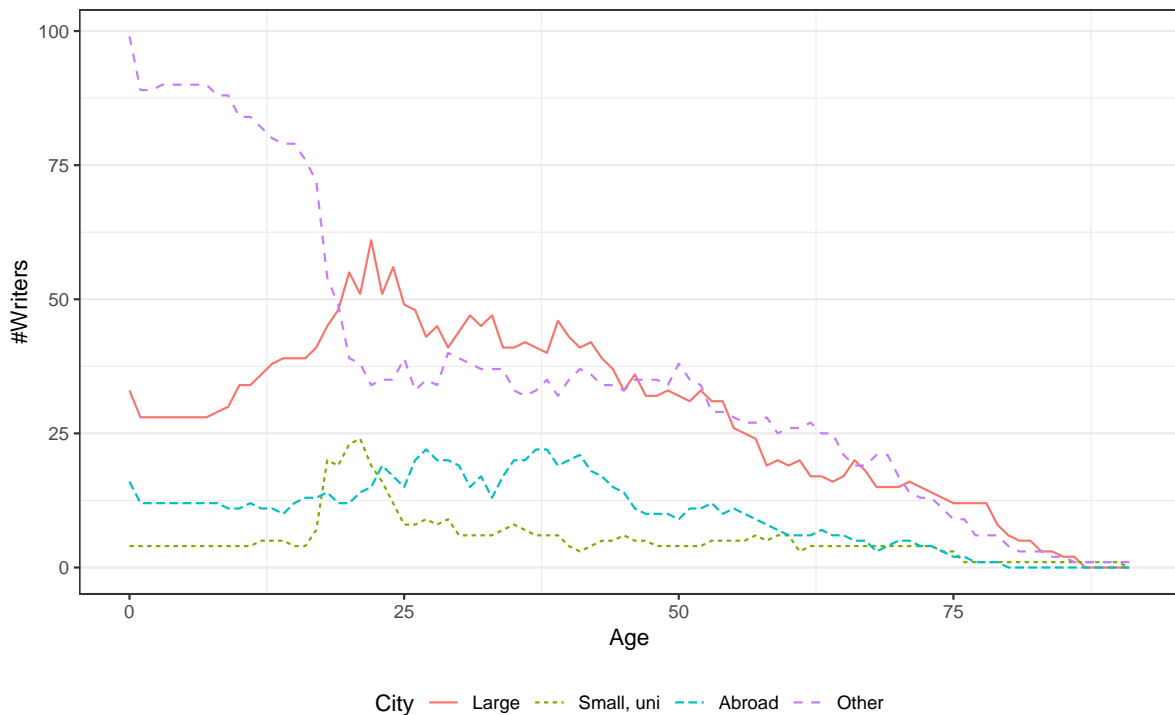
Notes: The plots show the number of adult writers per category. The first plot shows writers in circles with a radius of 60km. Naumburg importantly contains the cities Weimar, Jena, and Leipzig. Maulbronn contains Stuttgart, Tübingen, and Heidelberg. The second plot shows writers per category: major cities, small university cities, cities outside modern Germany and Poland, and other known locations within Germany/Poland.

Figure 3: Location by age and by agglomeration and city type

(a) Agglomerations

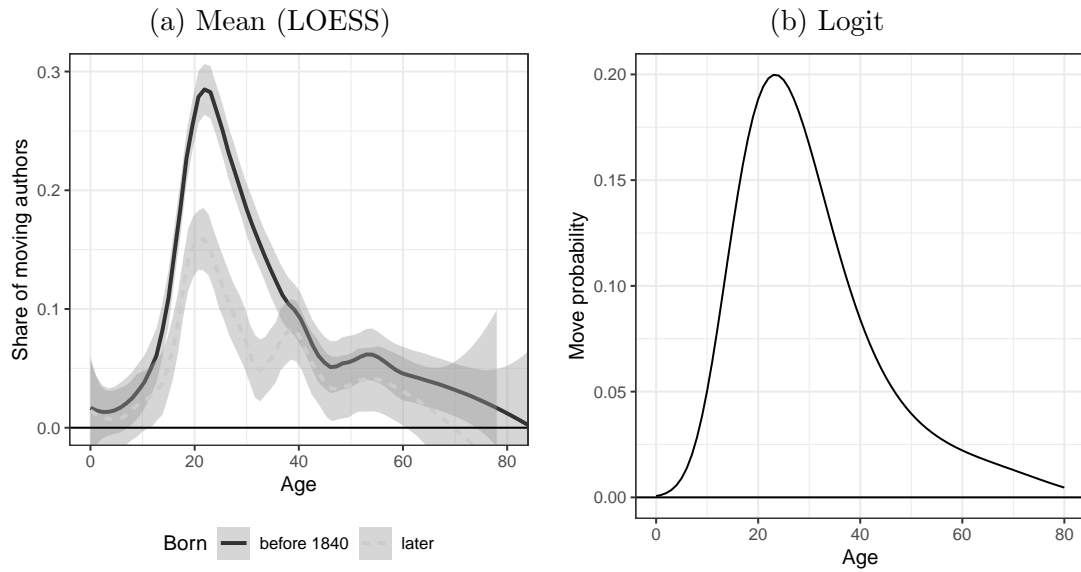


(b) Categories



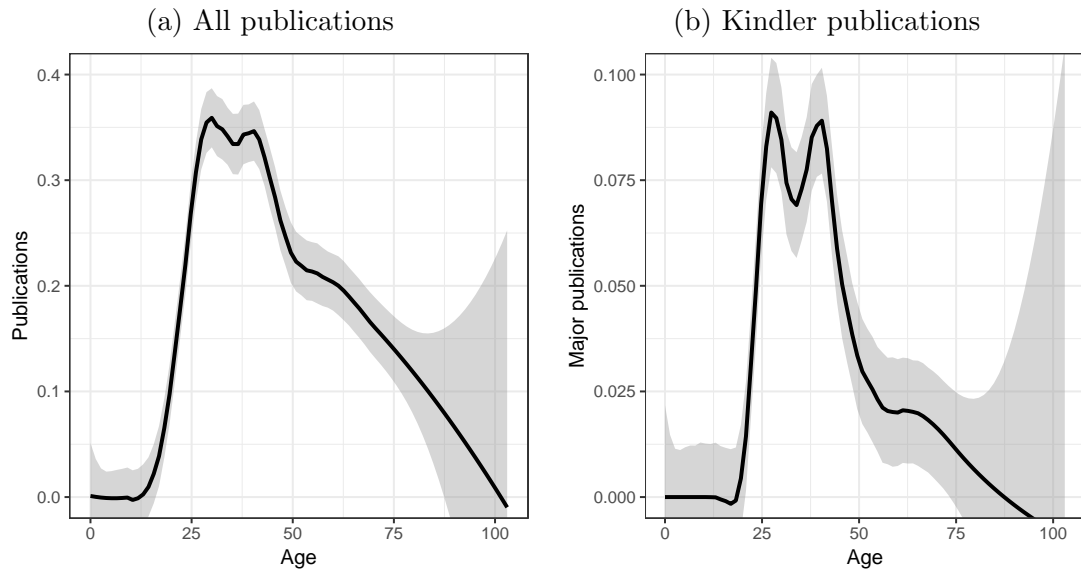
Notes: The plots show the number of adult writers per category. The first plot shows writers in circles with a radius of 60km. Naumburg importantly contains the cities Weimar, Jena, and Leipzig. Maulbronn contains Stuttgart, Tübingen, and Heidelberg. The second plot shows writers per category: major cities, small university cities, cities outside modern Germany and Poland, and other known locations within Germany/Poland.

Figure 4: Age and moves



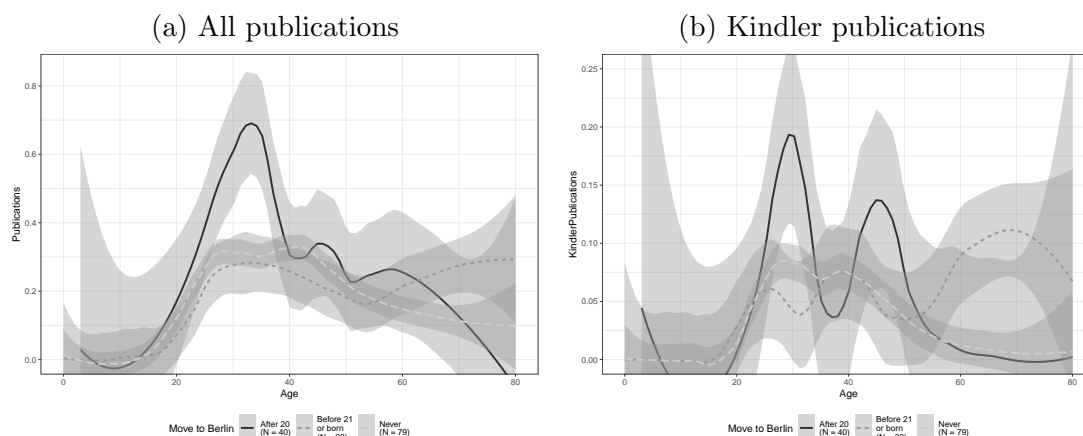
Notes: The left plots shows LOESS regressions of age on publications (span=0.3). The right plot shows predictions from a quartic polynomial for age in a logit model (see Table 1).

Figure 5: Age and productivity



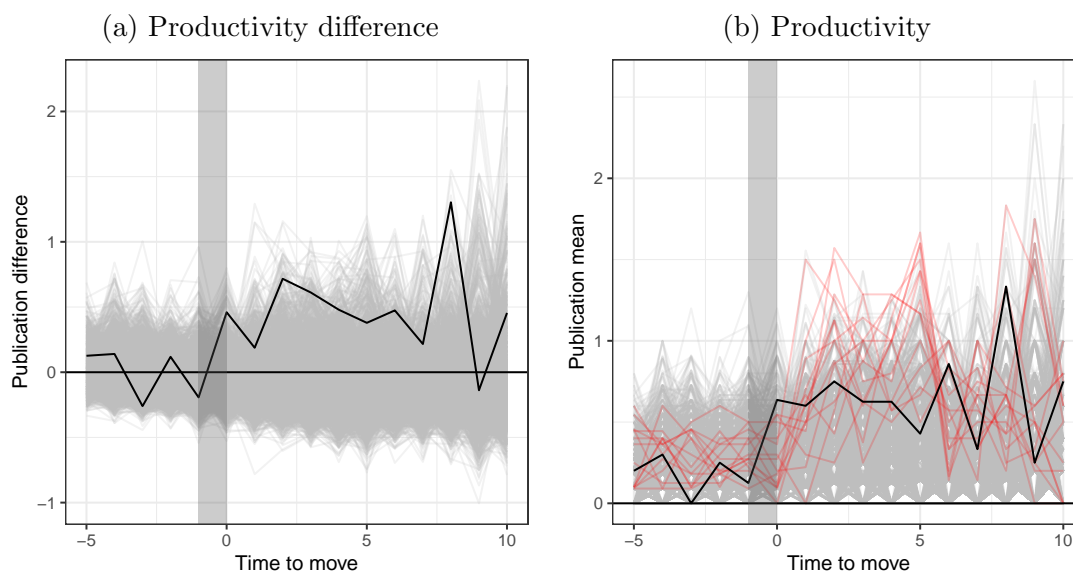
Notes: The plots show LOESS regressions of age on publications (span=0.3). The left plot shows all publications. The right plot shows publications included in the Kindler encyclopedia of literature.

Figure 6: Berlin: age and productivity



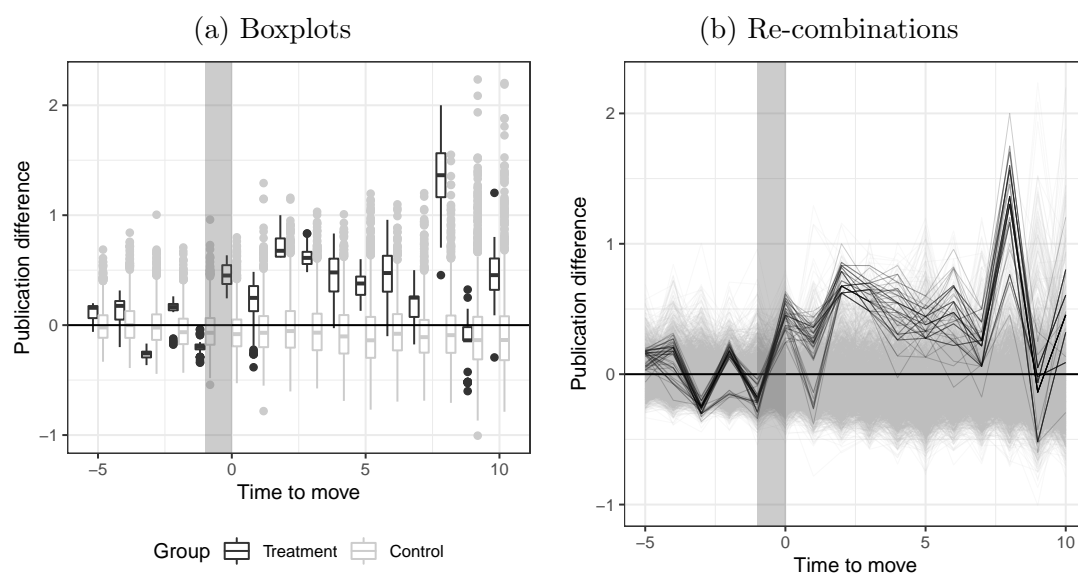
Notes: The plots show LOESS regressions of age on publications (span=0.4). The left plot shows all publications. The right plot shows publications included in the Kindler encyclopedia of literature.

Figure 7: Move to Berlin and productivity (group average and placebos)



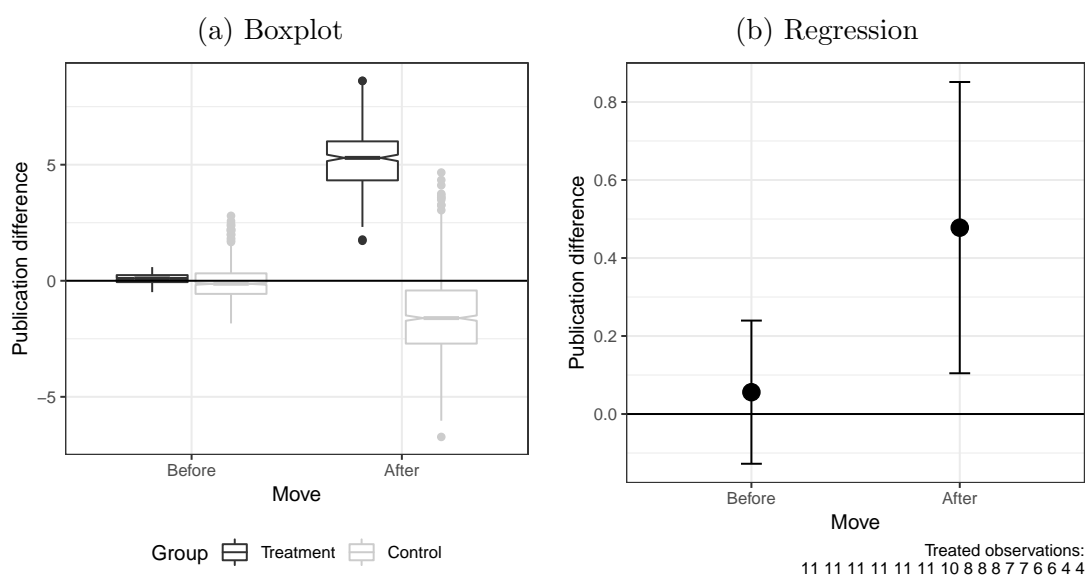
Notes: The left plot shows yearly publication differences between the mean of 14 writers who move to Berlin and a control group relative to the year of the move. The right plot shows just publication means. Grey lines depict pseudo groups of writers who never lived in Berlin. Red lines depict pseudo groups who have a higher publication average or difference after their move. See text for details.

Figure 8: Move to Berlin and productivity (group re-combinations)



Notes: The plots show yearly publication difference between groups that move to Berlin and control group relative to the year of the move. The dark black lines show averages for all combinations of 9 out of 11 writers who moved to Berlin aged between 25 and 35; the grey line show averages of pseudo groups consisting of writers who never moved to Berlin. See text for details.

Figure 9: Move to Berlin and productivity (aggregated)



Notes: The left plot shows a boxplot for Berlin and pseudo groups aggregated over the period before and after, otherwise equivalent to Figure 9a. The right plot shows estimates from a linear regression on the set of writers who moved to Berlin and their matched control.

2 Tables

All regressions take the form shown in Equation 1. Individual fixed effects α_i included as indicated. g denotes the respective link function.

$$\mathbb{E}(y_{it}|\dots) = g^{-1}(\alpha_i + x_{it}\beta + \sum_{j=0}^4 b_j \text{age}_{it}^j + \sum_{j=0}^4 a_j \text{year}_t^j) \quad (1)$$

Table A.1: Locations of writers

	<i>Dependent variable (link function):</i>				
	Move in year <i>(logit)</i> (1)	Distance of move <i>(log)</i> (2)	Distance to birthplace <i>(log)</i> (3)	Distance to nearest author <i>(log)</i> (4)	Berlin in year <i>(logit)</i> (5)
BerlinCity _{t-1}	-0.848*** (0.249)	0.117 (0.098)	-0.439*** (0.155)		
logMinDistance _{t-1}	0.039* (0.022)	0.023 (0.024)	0.131** (0.057)		
KindlerCumSum _{t-1}	-0.127*** (0.046)	-0.005 (0.042)	-0.048 (0.040)	-0.013 (0.091)	-0.066 (0.081)
PublicationCumSum _{t-1}	0.010 (0.014)	-0.001 (0.018)	-0.009 (0.011)	-0.048 (0.030)	-0.044 (0.037)
Publications _{t-1}	-0.046 (0.084)	0.004 (0.087)	-0.016 (0.032)	-0.010 (0.066)	0.173 (0.116)
WW	-0.043 (0.434)	-1.070* (0.612)	-0.231 (0.195)	-0.992 (0.854)	-0.123 (0.309)
Female					1.470*** (0.470)
logBrtiannica					0.194 (0.210)
N (df)	6845 (6694)	666 (524)	6784 (6634)	6967 (6813)	6968 (6953)
Ind FE	Yes	Yes	Yes	Yes	No

Notes: This table reports estimated coefficients from logit and quasi-Poisson with standard errors in parentheses. Standard errors are clustered at the author level. All regressions include quartic (orthogonal) polynomials for age and year.

*p<0.1; **p<0.05; ***p<0.01

Table A.2: Productivity in Clusters

	<i>Dependent variable (link=id):</i>							
	Publications (1)	Publications (2)	Publications (3)	Publications (4)	Publications (5)	Kindler (6)	Kindler (7)	Kindler (8)
Move	0.108*** (0.034)	0.067* (0.035)	0.084** (0.038)	0.085** (0.039)	0.091** (0.039)	0.023 (0.017)	0.008 (0.019)	-0.009 (0.025)
Berlin	0.014 (0.053)	0.094* (0.055)	0.137** (0.066)	0.213** (0.094)		0.021 (0.034)	0.059 (0.040)	0.021 (0.048)
Naumburg	0.023 (0.062)	-0.043 (0.056)	-0.035 (0.062)	-0.023 (0.062)		0.029 (0.043)	0.001 (0.036)	-0.021 (0.044)
Munich	-0.016 (0.053)	0.090 (0.085)	0.151 (0.147)	0.320 (0.241)		0.004 (0.029)	-0.016 (0.022)	-0.020 (0.033)
Maulbronn	-0.027 (0.053)	-0.004 (0.052)	0.045 (0.079)	0.058 (0.076)		0.006 (0.031)	-0.002 (0.029)	-0.007 (0.049)
WW				0.046 (0.084)				
logMinDistance				0.000 (0.009)				
NoWritersWithin10km				-0.013 (0.010)				
Berlin _{t-1}					0.146** (0.064)			
Naumburg _{t-1}					-0.030 (0.065)			
Munich _{t-1}					0.160 (0.115)			
Maulbronn _{t-1}					0.101 (0.077)			
Ind FE	No	Yes	Yes	Yes	Yes	No	Yes	Yes
N (df)	4492 (4478)	4492 (4340)	2241 (2089)	2240 (2085)	2241 (2089)	2963 (2949)	2963 (2855)	1541 (1433)
Age	20-80	20-80	20-40	20-40	20-40	20-80	20-80	20-40

Notes: This table reports estimated coefficients from linear and quasi-Poisson regression with standard errors in parentheses. Standard errors are clustered at the author level. All regressions include quartic (orthogonal) polynomials for age and year.

*p<0.1; **p<0.05; ***p<0.01

Table A.3: Productivity of young writers and time in Berlin

	<i>Dependent variable (link=id):</i>			
	Publications	Publications	Kindler publications	Kindler publications
	(1)	(2)	(3)	(4)
BerlinCity	-0.093 (0.073)	0.154* (0.091)	-0.061** (0.026)	0.028 (0.069)
Durance_1_3	0.119** (0.059)	0.012 (0.061)	0.054* (0.030)	0.036 (0.033)
Durance_4_6	0.016 (0.058)	-0.069 (0.067)	0.005 (0.030)	-0.003 (0.037)
Durance_7_9	0.022 (0.062)	-0.060 (0.076)	-0.011 (0.032)	-0.012 (0.035)
BerlinCity:Durance_1_3	0.219** (0.111)	-0.023 (0.107)	0.038 (0.047)	-0.048 (0.070)
BerlinCity:Durance_4_6	0.209* (0.126)	-0.032 (0.108)	0.205* (0.106)	0.146 (0.098)
BerlinCity:Durance_7_9	0.360** (0.175)	0.272 (0.185)	0.138* (0.078)	0.083 (0.077)
Ind FE	No	Yes	No	Yes
N (df)	2223 (2191)	2223 (2054)	1524 (1492)	1524 (1399)
Age	20-40	20-40	20-40	20-40

Notes: This table reports estimated coefficients from linear and quasi-Poisson regression with standard errors in parentheses. Standard errors are clustered at the author level. All regressions include quartic (orthogonal) polynomials for age and year.

*p<0.1; **p<0.05; ***p<0.01

Name	Birth	Birth City	Death	Death City	First Publication	Residence at 1st publication
Johann Christoph Gottsched	1700	Kaliningrad	1766	Leipzig	1725	Kaliningrad
Christian Furchtegott Gellert	1715	Hainichen	1769	Leipzig	1746	Leipzig
Ewald Christian von Kleist	1715	Zeblin	1759	Frankfurt am Main	1749	
Johann Elias Schlegel	1719	Meissen	1749	Soro	1736	Naumburg
Justus Moser	1720	Osnabruck	1794	Osnabruck	1768	Osnabruck
Friedrich Gottlieb Klopstock	1724	Quedinburg	1803	Hamburg	1749	
Gotthold Ephraim Lessing	1729	Kamenz	1781	Braunschweig	1747	Leipzig
Sophie von La Roche	1731	Kaufbeuern	1807	Offenbach	1771	Bonnigheim
Christoph Friedrich Nicolai	1733	Berlin	1811	Berlin	1755	Berlin
Christoph Martin Wieland	1733	Biberach	1813	Weimar	1751	Tubingen
Johann Karl August Mausaus	1735	Jena	1787	Weimar	1760	Jena
Heinrich Wilhelm von Gerstenberg	1737	Tondern	1823	Hamburg	1759	Leipzig
Christian Friedrich Daniel Schubart	1739	Obersontheim	1791	Stuttgart	1766	Geislingen
Johann Heinrich Merck	1741	Darmstadt	1791	Darmstadt	1772	Darmstadt
Theodor Gottlieb von Hippel	1741	Zheleznodorozhny	1796	Kaliningrad	1760	Kronstadt
Charlotte von Stein	1742	Weimar	1827	Weimar	1776	Weimar
Georg Christoph Lichtenberg	1742	Darmstadt	1799	Gottingen	1776	Gottingen
Karl Ludwig von Knebel	1744	Nordlingen	1834	Jena	1774	Weimar
Wilhelm Heinse	1746	Weimar	1803	Frankfurt am Main	1771	Erfurt
Gottfried August Brger	1747	Molmerswende	1794	Gottingen	1773	Gottingen
Ludwig Heinrich Christoph Hlty	1748	Hanover	1776	Mariensee	1771	Gottingen
Friedrich Muller	1749	Kreuznach	1825	Rome	1775	Mannheim
Johann Wolfgang von Goethe	1749	Frankfurt am Main	1832	Weimar	1767	Leipzig
Friedrich Leopold	1750	Bramstedt	1819	Osnabruck	1778	
Johann Martin Miller	1750	Ulm	1814	Ulm	1776	Gottingen
Johann Heinrich Voss	1751	Mecklenburg	1826	Heidelberg	1776	Gottingen
Adolf Franz Friedrich	1752	Hannover	1796	Bremen	1778	Hanau
Friedrich Maximilian von Klinger	1752	Frankfurt am Main	1831	Tartu	1776	Giessen
Johann Anton Lesiewicz	1752	Hannover	1806	Braunschweig	1775	Hannover
Karl Philipp Moritz	1756	Hannover	1793	Berlin	1779	Berlin
Friedrich Schiller	1759	Marbach	1805	Weimar	1781	Stuttgart
August von Kotzebue	1761	Weimar	1819	Mannheim	1782	Petersburg
Friedrich von Matthisson	1761	Magdeburg	1831	Woritz	1787	Bern
Christian August Vulpius	1762	Weimar	1827	Weimar	1797	Weimar
Jean Paul	1763	Bayreuth	1825	Bayreuth	1781	Bayreuth

Ernst Moritz Arndt	1769	Rugen	1860	Bonn	1801	Greifswald
Friedrich Hlderlin	1770	Heilbronn	1843	Tubingen	1797	Frankfurt am Main
Friedrich von Schlegel	1772	Hannover	1829	Dresden	1797	Berlin
Novalis	1772	Oberwiederstedt	1801	Weissenfels	1796	Weissenfels
Ludwig Tieck	1773	Berlin	1853	Berlin	1792	Halle
Wilhelm Heinrich Wackenroder	1773	Berlin	1798	Berlin	1794	Gottingen
Adolf Mullner	1774	Weissenfeis	1829	Weissenfeis	1799	Weissenfeis
Ernst Theodor Amadeus Hoffmann	1776	Kalliningrad	1822	Berlin	1795	Kalliningrad
Joseph von Gorres	1776	Koblenz	1848	Munich	1807	Heidelberg
Friedrich Heinrich Karl de la Motte	1777		1843	Berlin	1808	Nennhausen
Clemens Brentano	1778	Koblenz	1842	Aschaffenburg	1801	Gottingen
Adelbert von Chamisso	1781	Boncourt	1838	Berlin	1814	
Adolf Ludwig Follen	1784	Giessen	1855	Bern	1819	Heidelberg
Bettina von Arnim	1785	Frankfurt am Main	1859	Berlin	1835	Berlin
Karl August Varnhagen von Ense	1785	Dusseldorf	1858	Berlin	1807	
Justinus Andreas Christian Kerner	1786	Ludwigsburg	1862	Weinsberg	1807	Tubingen
Ludwig Uhland	1787	Tubingen	1862	Tubingen	1805	Tubingen
Friedrich Ruckert	1788	Schweinfurt	1866	Coburg	1811	Jena
Joseph, baron von Eichendorff	1788	Ratibor	1857	Neisse	1811	Berlin
Theodor Korner	1791	Dresden	1813	Mecklenburg	1812	
Johann Peter Eckermann	1792	Hanover	1854	Weimar	1821	Gottingen
Wilhelm Muller	1794	Dessau	1827	Dessau	1816	Berlin
August Graf von Platen	1796	Ansbach	1835	Syracuse	1821	Erlangen
Karl Leberecht Immermann	1796	Magdeburg	1840	Dusseldorf	1828	Dusseldorf
Annette von DrosteHulshoff	1797	Munster	1848	Meersburg	1819	
Heinrich Heine	1797	Dusseldorf	1856	Paris	1822	Berlin
August Heinrich Hoffmann von Fallersleben	1798	Hanover	1874	Hoxter	1830	Wroclaw
Karl von Holtei	1798	Wroclaw	1880	Wroclaw	1822	
Willibald Alexis	1798	Wroclaw	1871	Arnstadt	1823	Berlin
August Kopisch	1799	Wroclaw	1853	Berlin	1836	Berlin
Christian Dietrich Grabbe	1801	Detmold	1836	Detmold	1822	Leipzig
Wilhelm Hauff	1802	Stuttgart	1827	Stuttgart	1826	Stuttgart
Eduard Friedrich Morike	1804	Ludwigsburg	1875	Stuttgart	1832	
Ferdinand Freiligrath	1810	Detmold	1876	Stuttgart	1826	Soest
Fritz Reuter	1810	Schwerin	1874	Eisenach	1853	Berlin
Robert Schumann	1810	Zwickau	1856	Bonn	1829	Leipzig
Fanny Lewald	1811	Kaliningrad	1889	Dresden	1842	Berlin

Karl Gutzkow	1811	Berlin	1878	Frankfurt am Main	1826	Berlin
Berthold Auerbach	1812	Nordstetten	1882	Cannes	1837	
Friedrich Hebbel	1813	Wessalburen	1863	Munich	1840	Hamburg
Georg Buchner	1813	Goddelau	1837	Zurich	1834	Giessen
Hermann Kurz	1813	Reutlingen	1873	Tubingen	1836	Stuttgart
Otto Ludwig	1813	Eisfeld	1865	Dresden	1836	Eisfeld
Franz Ferdinand, count von Dingelstedt	1814	Halsdorf	1881	Vienna	1835	Hannover
Emanuel Geibel	1815	Lubeck	1884	Lubeck	1840	Athens
Gustav Freytag	1816	Kreuzburg	1895	Wiesbaden	1838	Wroclaw
Georg Herwegh	1817	Stuttgart	1875	Baden-Baden	1843	Zurich
Theodor Mommsen	1817	Garding	1903	Berlin	1843	Kiel
Theodor Storm	1817	Husum	1888	Hademarschen	1843	Husum
Friedrich Martin von Bodenstedt	1819	Peine (Hannover)	1892	Wiesbaden	1848	Trieste
Theodor Fontane	1819	Neurippin	1898	Berlin	1839	Berlin
Peter Cornelius	1824	Mainz	1874	Mainz	1856	Weimar
Joseph Victor von Scheffel	1826	Karlsruhe	1886	Heidelberg	1845	Munich
Friedrich von Spielhagen	1829	Magdeburg	1911	Berlin	1861	Berlin
Paul Johann Ludwig von Heyse	1830	Berlin	1914	Munich	1855	Munich
Wilhelm Raabe	1831	Braunschweig	1910	Braunschweig	1857	Wolfenbittel
Felix Dahn	1834	Hamburg	1912	Wroclaw	1854	Munich
Rudolf Baumbach	1840	Kranichfeld	1905	Meiningen	1877	Trieste
Karl May	1842	Hohenstein	1912	Radebeul	1875	Regensburg
Fritz Mauthner	1849	Horice	1923	Meersburg	1874	Prague
Max Nordau	1849	Budapest	1923	Paris	1882	Paris
Gustav Falke	1853	Lubeck	1916	Hamburg	1892	
Lou AndreasSalome	1861	St.Petersburg	1937		1892	Berlin
Gerhart Hauptmann	1862	Bad Salzbrunn	1946	Agnetendorf	1882	Wroclaw
Gustav Frenssen	1863	Barlt	1945	Barlt	1896	Dithmarschen
Richard Dehmel	1863	Wendisch-Hermsdorf	1920	Blankenese	1891	
Frank Wedekind	1864	Hannover	1918	Munich	1891	Munich
Otto Erich Hartleben	1864	Hanover	1905	Salo	1887	Magdeburg
Paul Ernst	1866	Elbingerode	1933	Sankt Georgen	1900	
Stefan George	1868	Budesheim	1933	Minusio	1890	Berlin
Else LaskerSchuler	1869	Wuppertal	1945	Jerusalem	1902	Berlin
Christian Morgenstern	1871	Munich	1914	Merano	1895	Berlin
Heinrich Mann	1871	Lubeck	1950	Santa Monica	1894	Rome
Wilhelm Uhde	1874	Strzelce Krajenskie	1947	Paris	1926	

Hans Grimm	1875	Wiesbaden	1959	Wahlsburg	1913	Munich
Thomas Mann	1875	Lubeck	1955	Zurich	1894	Munich
Theodor Daubler	1876	Trieste	1934	Sankt Blasien	1910	
Hermann Hesse	1877	Calw	1962	Montagnola	1899	
Alfred Doblin	1878	Stettin	1957	Emmendingen	1915	
Carl Sternheim	1878	Leipzig	1942	Brussels	1911	Berlin
Georg Kaiser	1878	Magdeburg	1945	Ascona	1908	
Hans Carossa	1878	Tolz	1956	Rittsteig	1902	
Bernhard Kellermann	1879	Furth	1951	Potsdam	1904	Munich
Robert Musil	1880	Klagenfurt	1942	Geneva	1911	Vienna
Leonhard Frank	1882	Wurzburg	1961	Munich	1914	
Rene Schickele	1883	Alsace	1940	Vence	1901	Munich
Lion Feuchtwanger	1884	Munich	1958	LA	1916	Munich
Fritz von Unruh	1885	Koblenz	1970	Rhein-Lahn	1911	
Gottfried Benn	1886	Mansfeld	1956	Berlin	1912	Berlin
Hugo Ball	1886	Pirmasens	1927	Sant Abbondio	1918	
Arnold Zweig	1887	Glogau	1968	Berlin	1916	
Ludwig Renn	1889	Dresden	1979	Berlin	1917	
Franz Werfel	1890	Prague	1945	Hollywood	1909	Hamburg
Kurt Tucholsky	1890	Berlin	1935	Gothenburg	1919	Berlin
Walter Hasenclever	1890	Aachen	1940	Aix-en-Provence	1909	Leipzig
Nelly Sachs	1891	Berlin	1970	Stockholm	1921	Berlin
Theodor Plievier	1892	Berlin	1955	Locarno	1918	
Ernst Toller	1893	Samotschin	1939	New York	1920	Munich
Oskar Maria Graf	1894	Berg	1967	New York	1929	
Ernst Junger	1895	Heidelberg	1998	Wilflingen	1920	
Carl Zuckmayer	1896	Nackenheim	1977	Visp	1921	
Bertolt Brecht	1898	Augsburg	1956	Berlin	1914	Augsburg
Erich Maria Remarque	1898	Osnabruck	1970	Locarno	1920	
Erich Kastner	1899	Dresden	1974	Munich	1927	Berlin