

Berggren, Niclas; Jordahl, Henrik; Poutvaara, Panu

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## The looks of a winner: beauty, gender and electoral success

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IZA DP No. 2311

**The Looks of a Winner:  
Beauty, Gender and Electoral Success**

Niclas Berggren  
Henrik Jordahl  
Panu Poutvaara

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# The Looks of a Winner: Beauty, Gender and Electoral Success

**Niclas Berggren**

*Ratio Institute, Stockholm*

**Henrik Jordahl**

*Research Institute of Industrial Economics, Stockholm*

**Panu Poutvaara**

*University of Helsinki  
and IZA Bonn*

Discussion Paper No. 2311  
September 2006

IZA

P.O. Box 7240  
53072 Bonn  
Germany

Phone: +49-228-3894-0  
Fax: +49-228-3894-180  
Email: [iza@iza.org](mailto:iza@iza.org)

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## ABSTRACT

### **The Looks of a Winner: Beauty, Gender and Electoral Success\***

We study the role of beauty in politics. For the first time, focus is put on differences in how women and men evaluate female and male candidates and how different candidate traits relate to success in real and hypothetical elections. We have collected 16,218 assessments by 2,772 respondents of photos of 1,929 Finnish political candidates. Evaluations of beauty explain success in real elections better than evaluations of competence, intelligence, likability, or trustworthiness. The beauty premium is larger for female candidates, in contrast to findings in previous labor-market studies.

JEL Classification: D72, J45, J7

Keywords: beauty, gender, elections, political candidates, beauty premium

Corresponding author:

Panu Poutvaara  
Department of Economics  
University of Helsinki  
P.O. Box 17 (Arkadiankatu 7)  
FIN-00014 Helsinki  
Finland  
E-mail: [panu.poutvaara@helsinki.fi](mailto:panu.poutvaara@helsinki.fi)

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# 1. Introduction

It is well established that being beautiful confers many advantages on a person. Langlois et al. (2000), in a meta-analysis of 102 studies, report that the looks of people influence how they are perceived and treated by others, even by those who know them. And interestingly, attractive persons exhibit more positive behaviors and traits than unattractive persons.<sup>1</sup> An emerging literature in economics demonstrates that the benefits of having good looks, as perceived by others, extend to and are substantial in the labor market. Beautiful people receive higher wages (a so-called beauty premium). According to Hamermesh and Biddle (1994), workers of above-average beauty earn about 10 to 15 percent more than workers of below-average beauty. Other studies obtain qualitatively similar results: see e.g. Frieze et al. (1991), Biddle and Hamermesh (1998), Harper (2000), Pfann et al. (2000), Hamermesh et al. (2002), French (2002) and Mocan and Tekin (2006). Experimental studies confirm this picture, e.g. Andreoni and Petri (2004) and Mobius and Rosenblat (2006).<sup>2</sup>

We take this line of inquiry further and ask whether there are benefits to being beautiful in the political arena as well. Is there a political “beauty premium”, such that better-looking candidates have a higher chance of becoming elected to public office? In fact the advantage of beauty could, according to the logic of expressive voting, be even greater in elections: in the absence of opportunity cost people might as well vote for the most handsome or beautiful candidate.<sup>3</sup> If so, this might be part of what some see as a tendency in elections to legislatures to put focus on candidates rather than on political platforms.<sup>4</sup> We are the first to study how evaluations of male and female political candidates, in particular of their beauty, by male and female respondents differ. Our use of photos representing real political candidates allows us to outline how gender differences in evaluations are related to the electoral performance of male and female candidates.

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<sup>1</sup> It is e.g. found that attractive children are more popular and better adjusted; and that attractive adults experience more occupational success, are more popular, have better physical health, are somewhat more extroverted, have somewhat higher self-esteem, have somewhat better social skills and have a little better mental health. Cf. Feingold (1992a) and Eagly et al. (2001).

<sup>2</sup> There are more general experimental studies of the effects of beauty, e.g. Mulford et al. (1998) on the Prisoners’ Dilemma, Solnick and Schweitzer (1999) on the Ultimatum Game, and Eckel and Wilson (2004) on trust games.

<sup>3</sup> On expressive voting, see e.g. Brennan and Lomasky (1993).

<sup>4</sup> See e.g. Wattenberg (1991), Stewart and Clarke (1992) and Mughan (2000) for such views. Cf. King (2002) for some dissent.

To study the role of beauty in politics, we have carried out a web survey with over 1,900 facial photos of Finnish political candidates, collecting evaluations from about 2,800 respondents who were asked to assess their beauty, as well as a few other traits, on a five-point scale. The survey was carried out outside of Finland, to minimize the risk that respondents would recognize the persons in the photos. Each candidate's beauty score, on average based on about nine assessments, has then been related to the number of votes they obtained in the 2003 and 2004 elections. Respondents were shown the same photos that Finnish voters had seen in the advertisements by political parties. We also asked respondents to choose whom they would vote for in a hypothetical election among four candidates.

Our main contribution to the literature on the role of beauty in politics consists of a systematic investigation of the role of gender. If beauty matters for electoral success, then the question is if it confers differential advantages on male and female candidates. Furthermore, we investigate whether male and female respondents differ in their evaluation of candidates' beauty and other traits. The beauty literature so far has paid scant attention to the gender issue. In their broad and general meta-study, Langlois et al. (2000: 399) report the following:

The meta-analyses showed that, both within and across cultures, people agreed about who is and is not attractive. Furthermore, attractiveness is an advantage in a variety of important, real-life situations. *We found not a single gender difference and surprisingly few age differences, suggesting that attractiveness is as important for males as for females and for children as for adults.* (Our italics.)

In the labor market, Hamermesh and Biddle (1994: 1187) conclude that there is an

absence of significantly larger penalties and premia, especially the latter, for women than for men. If anything, the evidence goes in the opposite direction: men's looks may have slightly larger effects on their earnings than do women's.<sup>5</sup>

In electoral studies, rather little is reported on gender and beauty. Banducci et al. (2003) find that female candidates are evaluated as less attractive, on average, than male candidates but do not indicate whether the electoral effect of beauty differs between men and women.

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<sup>5</sup> Similar qualitative results are obtained in other labor market studies, e.g. on lawyers (Biddle and Hamermesh, 1998), on young U.S. workers (Mocan and Tekin, 2006), on Chinese workers (Hamermesh et al., 2002) and on U.K. workers (Harper, 2000). There are also studies that look at different treatments of men and women in the labor market that do not focus on beauty, e.g. Neumark et al. (1996) on restaurants and Goldin and Rouse (2000) on symphony orchestras.

Hamermesh (forthcoming) looks at elections to the high offices of the American Economic Association, and his results indicate that there is a large and almost statistically significant effect of beauty on the electoral success of a male candidate; but also that there is virtually no such effect for a female candidate. This may be the result of the fact that 74 percent of the female candidates in his sample were elected, which makes one expect female candidates' beauty have little marginal effect.<sup>6</sup> Klein and Roser (2006) find that being a man influences a candidate's vote share positively, but only by about 0.5 percentage point. They do not investigate if there is a gender difference in beauty assessments.

In addition to the main focus on gender, beauty and electoral success, we make three other contributions to the literature. First, we not only study how evaluations are related to actual electoral success but also, using the same photos, how the candidates succeed in hypothetical elections. Second, we ask respondents to evaluate not only perceived beauty but also other traits. Third, our study is the first study of the effects of facial appearance on the success of politicians in a wholly proportional electoral system, enabling us to focus on within-party competition. The benefits of focusing on this type of competition are i) that many electoral systems are proportional and that, hence, political candidates in many places do compete against other candidates from the same party, ii) that plurality-vote systems like the American one also contain intraparty competition between candidates in the primary-election stage, and for that reason our study has clear implications for American politics as well, and iii) that there are methodological advantages to studying within- rather than between-party competition, like most previous studies do. The main reason is that it is much easier to isolate the effect of beauty on electoral success, as the choice between candidates of different parties can be expected to be influenced by many other factors, such as ideology, which we are able to control for with our approach.

We relate our findings to an emerging literature on the role of beauty in politics, the initial results of which can generally be said to be in need of verification and extension, not least in terms of whether they are characterized by gender differences. Banducci et al. (2003) find that attractive candidates to British community boards are at an advantage – moving

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<sup>6</sup> Hamermesh and Schmidt (2003), in a study of gender discrimination in elections to the Econometric Society, find that men and women are treated identically, if their qualifications are identical. Donald and Hamermesh (2006), in a study of elections to the American Economic Association, find that women are at an advantage: their chance of victory is much better than for men, and even more so when other determinants are accounted for. Dillingham et al. (1994), in another study of elections in a professional society, found that women tend to vote for other women to a disproportionate degree, whereas men were not guided by candidate gender in their voting. These three studies do not explicitly look at beauty, however.

from the lowest rating to the highest increases the candidate's share of the votes by 14 percentage points. Klein and Rosar (2006), in a study of a German state election, find that the effect of beauty is higher the lower the average attractiveness of the candidates in the constituency and that variations in a candidate's attractiveness can cause a change in his or her vote share of two to four percentage points. Todorov et al. (2005) find that inferences of competence from photos predict the outcomes of actual elections to the U.S. Congress quite well (71.6 percent of the Senate races and 66.8 percent of the House races).<sup>7</sup> Benjamin and Shapiro (2006) report that about 20 percent of the variation of the actual vote shares in U.S. gubernatorial elections can be explained by assessments of video clips.

Our main result is that beauty is conducive to electoral success, but far from a necessary condition for it. In a hypothetical election, we observe that perceived competence and trustworthiness are more strongly related to the voting decision than beauty, even if beauty also plays a statistically significant role. However, in real elections, when candidates are chosen in competition with others on the same party list, beauty is more strongly correlated with success than the other traits. Although the estimated effect of beauty on the vote share is small, it might tip the scale for some candidates at the cut-off point on a list. Furthermore, we observe in the hypothetical election that female respondents tend to favor female candidates, while male respondents tend to vote equally often for men and women.

One could also mention that we use more respondents than other studies – almost 2,800 compared to four (Hamermesh, forthcoming), 50 (Mobius and Rosenblat, 2006), 100 (Banducci et al., 2003), 264 (Benjamin and Shapiro, 2006) and 843 (Todorov et al., 2005).<sup>8</sup> This is a kind of sensitivity test. We also use a larger number of photos (to reduce the risk that results are driven by outliers), other respondents than students (e.g. from blogs and from postings to colleagues and university alumni), and respondents from many different countries. Our cross-country analysis allows us to rule out that a single country accounts for the observed patterns.

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<sup>7</sup> Todorov et al. (2005) have virtually nothing to say about the gender aspects of their findings, aside from the observation that candidates who were perceived as more competent only had a small advantage from this in races between one male and one female candidate. Their hypothesis is that people may not wish to assess the relative competence of male and female candidates.

<sup>8</sup> Todorov et al. (2005) collected evaluations of beauty only from 34 respondents.



## 2. Institutional Facts, Survey and Data

### 2.1 Institutional Facts

The political setting for this study is Finland, and its electoral system is proportional.<sup>9</sup> Finland has a one-chamber legislature, and the country is divided into fourteen mainland districts electing in total 199 legislators and the autonomous province of Åland (Ahvenanmaa in Finnish) electing one. Elections are held every four years. Currently, eight parties are represented in the Parliament.

In each district, parties<sup>10</sup> present lists of their candidates in alphabetical order, and each voter can and must choose one candidate on one list in the elections. The number of candidates that a party can present equals the number of representatives elected from the district if this is 14 or more, and otherwise 14. The number of seats in the 14 mainland districts varies between seven and 32. The legislature seats of a given district are allocated based on party vote shares to the candidates in accordance with their “competitive indices”. The candidate in each party with the highest number of votes receives as his or her competitive index the total number of votes obtained by his or her party, the candidate with the second highest number of votes obtains an index calculated as half of the party votes, the third candidate gets an index equal to a third of the party votes, etc. Then all candidates are ranked on the basis of their indices, and from this list, there will be elected as many candidates as there are seats in the electoral district. In the municipal elections, competitive indices are calculated in a similar way, with each municipality forming a district.

In the 2003 national election, the participation rate among eligible citizens was 69.7 percent. Female candidates received 42.6 percent of all votes, and 75 of the elected 200 members of parliament were women (Statistics Finland, 2006). Finnish voters also elect a President. At present, Social Democrat Tarja Halonen serves her second six-year term.

### 2.2 The Survey

In order for beauty to be a meaningful variable for social scientists to study, perceptions of it need to be quantified as well as reflect somewhat of a stable consensus. Langlois et al. (2000) in fact find that there is considerable and statistically significant agreement about who is and

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<sup>9</sup> See Raunio (2005) and the Election Act of 1998 at <<http://www.finlex.fi/pdf/saadkaan/E9980714.PDF>>

<sup>10</sup> Or electoral alliances or joint lists. For simplicity, only parties are mentioned forthwith.

who is not attractive, both within and across cultures. As Hamermesh and Biddle (1994: 1175) put it: “within a culture at a point in time there is tremendous agreement on standards of beauty, and these standards change quite slowly.”<sup>11</sup> On this basis, we have conducted a web survey.<sup>12</sup> We did not only ask about beauty but also about possibly related traits in order to pinpoint more precisely how the beauty results are to be interpreted and what determines electoral success.<sup>13</sup>

The survey was conducted in the spring and summer of 2006. With the help of dozens of colleagues, students in various universities outside of Finland were invited to participate, either in lectures or by e-mail. As for traditional student recruitment, the biggest participant numbers, more than 100 from each, came from Sciences Po in France and Uppsala University in Sweden. To attract also non-students, invitations to participate in our study were sent to Uppsala University alumni as well as to members of two professional associations (International Institute of Public Finance and European Public Choice Society). We also cooperated with several blogs<sup>14</sup> that advertised our study. Our data collection method allows us to study separately traditional student respondents and respondents recruited in other ways. The respondents had the option to participate in a lottery of 100 euros and could also order a future summary of the results.<sup>15</sup>

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<sup>11</sup> The same point is made by e.g. Adams (1977), Feingold (1992b), Jones and Hill (1993), Perrett et al. (1994), Cunningham et al. (1995) and Aharon et al. (2001). We also find remarkably small differences between countries. For example, the average beauty rating on a five-point scale by Swedes was 2.7, by Americans 2.8, by French 2.6, by Germans 2.8, by Danes 2.7 and by others 2.7. Since respondents from different countries may not have evaluated the same photos the same share of times, one can also compare the mean deviation of national evaluations from the mean evaluations of each photo among respondents from all nationalities. Then we get the following results: Swedes -0.0002, Americans 0.0164, French -0.1092, Germans 0.0288, Danes -0.0246 and others 0.0151. It is clear that respondents in different countries make very similar evaluations of the same photos (with the French possibly finding candidates a little less beautiful than others).

<sup>12</sup> For an excerpt of questions asked, including reply alternatives, see Box A1 in the Appendix.

<sup>13</sup> We do not claim that the evaluations represent true characteristics of the persons in the photos. This study is about perceptions and how these are related. None of the relationships reported should be interpreted as claims of a relationship in any underlying true characteristics.

<sup>14</sup> A “blog” is a weblog, i.e. a website with personal commentary, often on current affairs and topics.

<sup>15</sup> We have conducted another web survey with the same photos, getting almost 39,000 responses from about 3,500 participants. We focus on the current survey as we did not report in the earlier survey that the photos depict political candidates or that we are studying politics, and thus did not ask who the respondents would vote for. Nonetheless, the earlier survey serves as an extensive sensitivity analysis of the results and indicates high test-retest reliability. When both surveys are combined, each photo has received almost 30 ratings on average, rendering the results statistically very robust. Importantly, we found that the results were relatively similar whether the

Each respondent was shown four photos one at a time, two of women and two of men, randomly chosen from the database of photos. In connection with each of them, several questions were asked. There was an option, after having evaluated four photos, to evaluate additional rounds of four photos, this time with a choice as to whether to evaluate only women, only men or a continued mixture. There was no time limit for looking at the photos.<sup>16</sup> The size of the photos was approximately 5 x 3.5 centimeters (2 x 0.7 inches), and they depicted faces only. No other information than the photo was given about anyone. In Finland, political parties have in each district a poster that has a photo of each candidate. These photos were provided to us by the participating political parties. Thus, our respondents were shown the same photos as the voters.<sup>17</sup> The candidates on the photos come from four parties: the Social Democratic Party, the National Coalition Party, the Left Alliance and the Green League. These parties represent 63 percent of elected members of parliament in the 2003 election.

## 2.3 Data

### *Number of photos*

The database contained 1,929 photos of Finnish political candidates – 1,009 of men (52 percent) and 920 of women (48 percent), from the municipal (57 percent) and national level (43 percent). We only include evaluations by respondents who evaluated at least a full round of four photos. Except when studying hypothetical elections we only include photos with at least three evaluations. This gives us 1,789 photos. In the section on real elections, we confine most of the analysis to 1,569 photos of non-incumbents.

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respondents knew that the persons in photos are politicians or not. The results for the earlier survey are available upon request.

<sup>16</sup> Presumably, respondents have used different periods of time when looking at the photos, but this need not be a problem. Ambady and Rosenthal (1992) document that studies using longer periods of behavioral observation do not yield greater predictive accuracy, something which seems to hold, not least, with regard to faces (cf. Todorov et al., 2005: 1623–1624).

<sup>17</sup> Our usage of photos that have actually been shown to the voters means that the quality of the photos or what the candidates wear etc. are less important issues than if other photos had been used. Even more, one could argue that using other photos than those actually shown to voters could bias estimates of the effects of appearance on electoral success. After all, most voters do not participate in events in which they could see the candidates in person and therefore have to rely on the photos provided in advertisements.

### *Number of responses*

The number of photo evaluations from respondents evaluating at least four photos (one full round) was 16,432. On average, each photo was evaluated by nine respondents.

### *Number of respondents (per country and in total)*

**Table 1. Respondents by country**

Country	Country of residence		Home country	
	Number	Percent	Number	Percent
US	859	31.0	800	28.9
Sweden	850	30.7	863	31.1
France	261	9.4	230	8.3
Germany	220	7.9	219	7.9
Denmark	156	5.6	154	5.6
Other country	426	15.4	506	18.2
Total	2,772	100	2,772	100

*Note:* Respondents denote those who assessed at least four photos (one full round). 66 percent were men, 34 percent women. 32 percent were students, an additional 14 percent doctoral students. Average age: 31.

In order to guarantee that respondents did not recognize politicians in the photos, respondents who lived in Finland were shown photos of Swedish politicians, and their evaluations are not part of this study.

## **3. Perceptions of Beauty and Other Traits**

Each photo was evaluated using five reply options, which we have converted to a five-number scale. The lowest possible beauty rating corresponds to 1, the highest possible beauty rating to 5, etc. In evaluating each trait, respondents had an option to abstain. The share of those who abstained varied between 0.5 percent for beauty and 7.9 percent for trustworthiness. There is substantial agreement among respondents; if we concentrate on two groups of beauty evaluations — above average (4 and 5) and below average (1 and 2) — the kappa coefficient of inter-rater agreement is 0.48 and highly statistically significant.

However, men and women did not always agree on their evaluations (Table 2). There is a clear tendency for male respondents, on average, to give photos of women less positive evaluations than female respondents do. There are smaller differences in the evaluations of photos of men; the only statistically significant difference at the 5 percent level is that male

respondents find men in photos more handsome or beautiful compared to what female respondents find.<sup>18</sup>

**Table 2. Average evaluations**

Variable	Male respondents evaluating male candidates	Female respondents evaluating male candidates	Male respondents evaluating female candidates	Female respondents evaluating female candidates
Beauty	2.644	2.573	2.790	3.009
Competence	3.304	3.272	3.205	3.389
Likability	3.069	3.060	3.223	3.371
Trustworthiness	3.043	3.015	3.292	3.418
Intelligence	3.382	3.352	3.229	3.367

On average, male respondents perceive male candidates to be more intelligent and competent than female candidates, and female candidates to be more beautiful, likable and trustworthy. Female respondents give more positive evaluations of female candidates in all respects, even though the difference in the evaluation of intelligence is small and not statistically significant.<sup>19</sup>

#### 4. Hypothetical Election

The respondents were asked to vote for one of four candidates (the ones they had just evaluated) in a hypothetical election, or to abstain from voting or choose “Prefer not to answer”.<sup>20</sup> If one looks at the share of the thus “elected” candidates that were also picked as the most extreme one (positively so) in the evaluated traits, one actually finds that beauty gets the lowest score: only 45 percent of the respondents thought that the candidate they chose to vote for was also the most beautiful one. Competence seems to be the most important trait in

<sup>18</sup> The evaluations by (undergraduate and graduate) students and other respondents are remarkably similar, with the only statistically significant differences being that students evaluate the candidates somewhat more negatively in beauty (average of 2.69 vs. 2.79 for non-students) and somewhat more positively in trustworthiness (average of 3.23 vs. 3.17 for non-students).

<sup>19</sup> For correlation coefficients, see Table A1 in the Appendix.

<sup>20</sup> The instruction reads: “Sometimes people have to vote in an election with only a little information. Let us assume that you would have to either vote for one of these persons as a member of Parliament [non-US respondents]/the House of Representatives [US respondents], or abstain from voting. Which would be your choice?”.

this regard: 60 percent of the respondents thought that the candidate they chose to vote for was the most competent one.<sup>21</sup>

Looking at gender differences also among the respondents, Table 3 reveals that women are elected more often than their share of photos in the hypothetical election (which here by construction is 50 percent), since women relatively often choose female candidates (in 68.3 percent of the cases). Men, on the other hand, show a much weaker inclination to favor male candidates. This result is in line with that of Dillingham et al. (1994), indicating that women are sometimes at an advantage in elections.

**Table 3. Gender differences in the hypothetical election**

Sample	Women’s share of “elected” candidates
Full	56.2
Male respondents	48.4
Female respondents	68.3

*Note:* The table is based on choices between four candidates, two women and two men. Thus 50 percent of the candidates in this set of hypothetical elections are women.

The female respondents’ preference for female candidates is largely consistent with results in Table 4 from a linear probability model with the respondents’ choices of candidates in the hypothetical election as the dependent variable.

Because of multicollinearity between the five traits, only beauty, competence, and trustworthiness are used in our regressions in this and in the following section: we exclude likability, which is quite highly correlated with beauty, and intelligence, which is strongly correlated with competence. The explanatory variables are dummy variables for choices as the most beautiful, the most competent and the most trustworthy candidate. Male candidate is a dummy for male candidates. The table is only based on choices between two male and two female candidates. It turns out that both men and women prefer candidates of their own gender, a pattern which is especially strong for women. Beauty is less important than competence for both men and women.<sup>22</sup>

<sup>21</sup> See Table A2 in the Appendix for detailed figures.

<sup>22</sup> The results are confirmed in a probit model, the results of which are available upon request.

**Table 4. Linear probability model of the hypothetical election**

	(1)	(2)
	Elected by female respondents	Elected by male respondents
beautychoice	0.161*** (0.012)	0.143*** (0.009)
competencechoice	0.294*** (0.012)	0.295*** (0.009)
trustchoice	0.210*** (0.012)	0.210*** (0.009)
male candidate	-0.063*** (0.010)	0.024*** (0.008)
Observations	5172	8650
R-squared	0.27	0.24

Standard errors in parentheses. The regressions include a constant term.

\* significant at 10 percent; \*\* significant at 5 percent; \*\*\* significant at 1 percent

When looking at choices between four female candidates, we find somewhat similar results: beauty matters in the electoral choice for both male and female respondents; but for choices between four male candidates, beauty only attains statistical significance and a decent coefficient size for female respondents. Furthermore, to see whether the effect of beauty is non-linearly related to being elected, we have replaced the beauty variable with dummies for each of the five beauty levels. Overall, the effect is approximately linear.<sup>23</sup>

## 5. Real Elections

We next estimate the importance of beauty and other perceived traits on electoral success. Given that the estimates by Finnish voters would likely be influenced by their knowledge of the candidates, using Finnish respondents would create a systematic measurement error. This problem does not arise in our study as we only have respondents from outside of Finland.<sup>24</sup> Like Hamermesh (forthcoming), we look at the share of the candidates elected in real elections who score above average on their list for the traits.<sup>25</sup> In the case of beauty, a little more than half of those elected had an above-average rating. This indicates that although beauty may be an asset in politics, it is by no means a necessary requirement for getting elected. However, again we find that there is a clear gender gap: whereas only 40 per-

<sup>23</sup> All these results are available upon request.

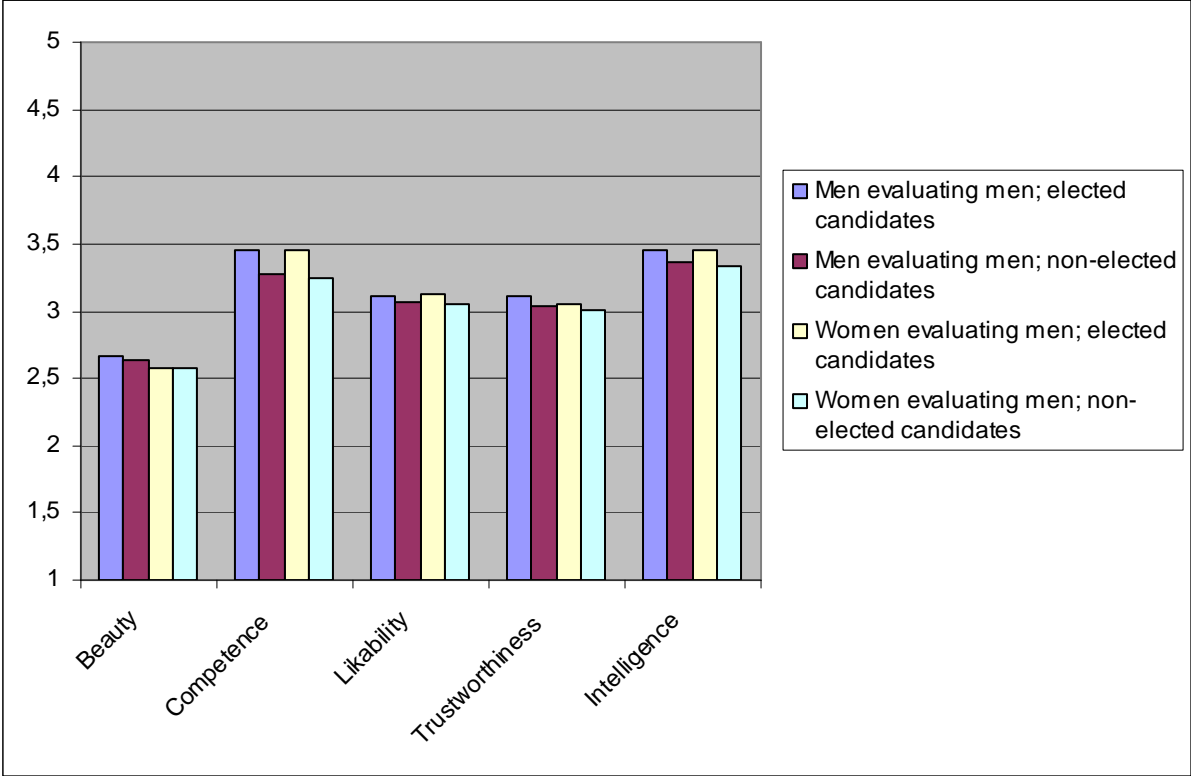
<sup>24</sup> None of the respondents correctly recognized anyone of the candidates. In 17 cases the respondent mistook a candidate for another politician. Tarja Halonen was the only Finnish politician that anyone, incorrectly, claimed to recognize. Ten answers were of the kind "I recognize her but don't remember her name."

<sup>25</sup> See Table A3 in the Appendix.

cent of the elected male candidates had a beauty rating above average, the corresponding number for female candidates is 63 percent. Compared to other non-incumbent candidates of their own gender, 57 percent of elected men and 65 percent of elected women were evaluated to be of above-average beauty.

A more detailed picture emerges if we look at average evaluations and also take the gender of the respondents into account. Figure 1 shows that both male and female respondents evaluate elected and non-elected male candidates similarly. One notable difference is that perceived competence is a bit higher among elected male candidates compared to non-elected male candidates. For beauty, the evaluations of elected and non-elected male candidates are very close to each other.

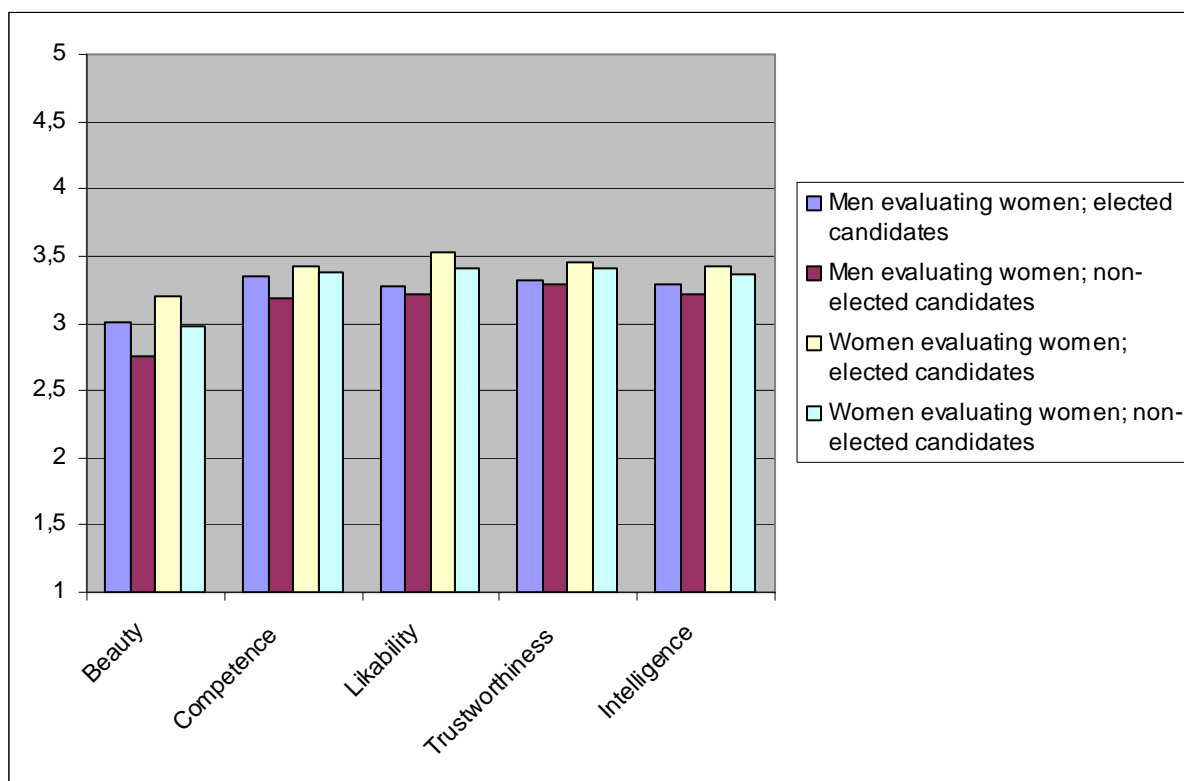
**Figure 1. Evaluations of elected and non-elected male candidates**



For female candidates the story is quite different. As shown in Figure 2 both male and female respondents assign higher beauty scores to elected than to non-elected female candidates. Other differences are smaller, but not as small as for male candidates. Here one can mention that male respondents seem to give elected female candidates higher competence evaluations than they give to non-elected female candidates.



Figure 2. Evaluations of elected and non-elected female candidates



Next we connect our results for the hypothetical election with regression results, testing to what extent beauty and other traits can be related to the vote shares that the candidates received in actual elections in 2003 and 2004. In this we pay particular attention to gender differences. We focus on the large group of non-incumbent candidates; all regressions below are based on non-incumbent candidates only. Incumbency is a strong predictor of electoral success (see e.g. Lee, 2001) and the processes that determine electoral outcomes appear to be different for incumbents and non-incumbents. Using incumbency to explain electoral success in this kind of study would also dodge the question why the incumbent politicians were elected in the first place.<sup>26</sup> As shown in Table A4 in the Appendix, adding incumbents and an incumbency dummy would boost the explanatory power of the model significantly. However, relative beauty loses its statistical significance for males if incumbents and an incumbency dummy are added.

<sup>26</sup> Because of the proportional electoral system with party lists and intraparty competition we are able to study non-incumbents only, whereas a plurality-vote system like that of the U.S. typically features an incumbent and a non-incumbent from different parties facing each other. Benjamin and Shapiro (2006) use a dummy for incumbency, but it is unclear to what extent it captures all effects of incumbency, which might appear in other variables or in other ways. Hence, we consider our setting an advantage.

The trait variables are constructed in two steps. First we compute the mean over all respondents who evaluated a particular photo. From this measure we then subtract its mean over the non-incumbent candidates on the same list.

The dependent variable, *vote share*, refers to each non-incumbent candidate's vote share among the non-incumbent candidates of the same party in the same district (i.e. on the same party list) times 100.<sup>27</sup> As regressors, we use the three trait variables *beauty*, *competence* and *trustworthiness*, measuring for each non-incumbent candidate the average trait evaluation minus the average evaluation of that trait over all non-incumbent candidates on the same list. In an extended regression we also include *young*, which is the difference between the candidate's estimated age and the (estimated) mean on the list, multiplied by a dummy for age below 40, and *old*, which is the difference between the candidate's estimated age and the (estimated) mean on the list, multiplied by a dummy for age above 39.<sup>28</sup>

We begin by looking at the effects in the national election for females and males, as reported in Table 5. Most notably, we find that relative beauty is by far the most important explanatory variable of the vote share both for female and for male candidates, and the only regressor that attains statistical significance. A higher beauty score of one unit implies an increase of between 2.5 and 2.8 percentage points in the vote share for female candidates and between 1.5 and 2.1 percentage points for male candidates. For young men (below 40), there is a disadvantage of being younger than average on the list.

**Table 5. Vote share explained by candidate traits, national election, by candidate gender**

	(1) Vote share female candidates	(2) Vote share male candidates	(3) Vote share female candidates	(4) Vote share male candidates
beauty	2.515*** (0.62)	1.531** (0.72)	2.754*** (0.73)	2.052*** (0.77)
competence	0.344 (1.05)	1.348* (0.79)	0.125 (1.08)	0.892 (0.82)
trustworthiness	0.790 (1.05)	0.323 (0.86)	0.862 (1.06)	0.156 (0.86)
young			0.0754 (0.081)	0.151* (0.078)
old			-0.0257 (0.085)	0.0336 (0.069)
Observations	348	298	348	298
R-squared	0.06	0.04	0.06	0.05

Standard errors in parentheses. The regressions include a constant term.

\* significant at 10 percent; \*\* significant at 5 percent; \*\*\* significant at 1 percent.

<sup>27</sup> The results are similar if we instead use each candidate's vote share among non-incumbents minus  $1/n$ , where  $n$  is the number of non-incumbents on each list.

<sup>28</sup> To reduce the influence of a small number of surprising age estimates, we use median rather than mean age to calculate the estimated age of each candidate.

When looking at municipal elections in Table 6, we find that relative beauty is less important for both genders than in the national election, albeit still statistically significant. A higher beauty score of one unit implies an increase of between 0.23 and 0.32 percentage points in the vote share for female candidates and between 0.18 and 0.25 percentage points for male candidates. Interestingly, in local elections we get the result that competence is more important than beauty for female candidates, but it seems rather unimportant for male candidates. In the national election competence was if anything relatively more important for male candidates.<sup>29</sup>

If we exclude beauty, the effect of competence is substantially higher and statistically more significant. This would reconcile our findings with those of Todorov et al. (2005), who do not include beauty in most of their analysis and find that competence plays a primary role. Our findings suggest that as perceptions of beauty and competence are positively correlated, excluding beauty as a control results in an overestimation of the effect of perceived competence.

**Table 6. Vote share explained by candidate traits, municipal elections, by candidate gender**

	(1) Vote share female candidates	(2) Vote share male candidates	(3) Vote share female candidates	(4) Vote share male candidates
beauty	0.231** (0.11)	0.180* (0.10)	0.322** (0.14)	0.254** (0.11)
competence	0.653*** (0.20)	0.190 (0.13)	0.564*** (0.21)	0.1000 (0.14)
trustworthiness	-0.342 (0.22)	-0.0986 (0.14)	-0.334 (0.22)	-0.124 (0.14)
young			0.0261* (0.016)	0.0147 (0.011)
old			-0.0102 (0.014)	0.00917 (0.0094)
Observations	465	458	465	458
R-squared	0.05	0.02	0.05	0.03

Standard errors in parentheses. The regressions include a constant term.

\* significant at 10 percent; \*\* significant at 5 percent; \*\*\* significant at 1 percent.

<sup>29</sup>We have used photos that received at least three evaluations. As a sensitivity analysis we have calculated the results for photos with any minimum number of evaluations between 1 and 5. In the national election, beauty is statistically significant at the 1 percent level for female candidates for each threshold. For male candidates, the effect of beauty is always positive, but not always statistically significant. The same pattern holds in municipal elections. We have also estimated the regressions with weighted least squares by giving each observation a weight which is inversely proportional to the variance estimate  $s^2$  divided by the number of evaluations of the photo. These estimates are very close to their counterparts in Table 5 and 6, although the effect of beauty is slightly smaller and less statistically significant for male candidates in the municipal elections. All mentioned results are available upon request.

To further pinpoint the relationship between beauty and electoral success, and to see whether the relationship is driven by outliers, we have computed Spearman rank correlations for the 449 non-incumbent candidates in the Helsinki municipal elections.<sup>30</sup> The Spearman rank correlation between *beauty* and *vote share* is especially strong for female candidates, for whom Spearman's rho is 0.278.<sup>31</sup>

The analysis of Spearman rank correlations also allows us to compare the relationship between electoral success and the evaluations of the five different traits one at a time and to implement a horse race between these as explanatory variables for electoral success. For both females and males, the Spearman rank correlation between electoral success and beauty is larger and has a higher statistical significance than the rank correlation between electoral success and perceived competence, intelligence, trustworthiness and likability.

To summarize, is perceived beauty an asset in politics? Our findings indicate that it is, especially in the national context and to a higher extent for female than for male candidates. However, although it generally appears to be a bigger asset than e.g. competence, as inferred from photos, it does not seem to be a *dominant* explanation of vote shares in the Finnish, proportional electoral system. First of all, the R<sup>2</sup>s reported are everywhere quite low, indicating that the fit of the empirical model is not all that precise. Second, the size of the effect is rather modest, even where it matters the most (in the national election for female candidates, as seen in Table 5). However, even a small difference in vote shares may make a difference inside a party list if the candidates – like they are in Finland – are elected in the order determined by the number of personal votes.

## 6. Concluding Remarks

People's visual appearance has been shown to exert an independent influence on how they are treated in many settings. For example, good looks seem to be a distinct advantage in the labor market. An emerging literature indicates that beauty may play an important role in politics as well (see e.g. Banducci et al., 2003, and Klein and Roser, 2006). We add to this literature by studying whether there are differences in how men and women are assessed by

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<sup>30</sup>The Helsinki municipal elections are best suited for this, thanks to the large number of candidates and all four parties having about the same number of non-incumbents.

<sup>31</sup> See Table A5 in the Appendix.

male and female respondents. Our study is the first one to analyze the role that beauty and other perceived traits play both in hypothetical and in real political elections, taking into account gender differences among both electoral candidates and respondents.

As voters in Finland vote for a person on a party list in multi-member jurisdictions, our analysis sheds light on the role of beauty for electoral success in a proportional electoral system, but the results are valuable also for majoritarian electoral systems with primary elections. Our results, based on a much bigger dataset than has previously been used, imply that beauty does play a role for electoral success – candidates who are more beautiful than their list competitors receive higher vote shares. We also find that evaluations of beauty and competence are positively correlated. Therefore, excluding beauty as a control results in an overestimation of the effect of perceived competence on electoral success.

In a hypothetical election, we furthermore observe that female respondents tend to favor female candidates, while male respondents tend to vote equally often for men and women. Controlling for choices of the most beautiful, most competent, and most trustworthy candidate in a linear probability model confirms this general picture: female respondents tend to vote for women to a larger extent than men tend to vote for men. We find a similar pattern in general evaluations: female respondents tend to evaluate women in photos clearly more positively than male respondents do, while the gender differences in evaluating photos of men are small.

## Appendix

### Box A1. Excerpt from the web survey

**What is your evaluation of the physical appearance or attractiveness of this person compared to the average among people living in your country of residence?**

Very unattractive  
Below average  
Average  
Above average  
Very handsome or beautiful  
Cannot say/Prefer not to answer

**What is your evaluation of the competence of this person compared to the average among people living in your country of residence?**

Very incompetent  
Below average  
Average  
Above average  
Very competent  
Cannot say/Prefer not to answer

**What is your evaluation of the likability of this person (i.e. how nice, pleasant, and agreeable do you find this person) compared to the average among people living in your country of residence?**

Very unlikable  
Below average  
Average  
Above average  
Very likable  
Cannot say/Prefer not to answer

**What is your evaluation of the trustworthiness of this person (i.e. how ethical, honest, and responsible do you find this person) compared to the average among people living in your country of residence?**

Very untrustworthy  
Below average  
Average  
Above average  
Very trustworthy  
Cannot say/Prefer not to answer

**What is your evaluation of the intelligence of this person compared to the average among people living in your country of residence?**

Very unintelligent  
Below average  
Average  
Above average  
Very intelligent  
Cannot say/Prefer not to answer

**How mature-faced or babyfaced (i.e. childlike or youthful looking) do you find this person relative to other people of the same sex and age?**

Very mature-faced  
Somewhat mature-faced  
Neither mature-faced nor babyfaced  
Somewhat babyfaced  
Very babyfaced  
Cannot say/Prefer not to answer

**Which political group do you think that this person belongs to? (Each person belongs to one of those listed below.)**

Political left (Social Democrats, Socialists)  
Political right (Conservatives)  
Greens  
Cannot say/Prefer not to answer

**What is your evaluation of the age of this person? Use your keyboard to fill in the age in the box below.**

**Table A1. Correlation matrix**

	beauty	competence	likability	trustworthiness	Intelligence
beauty	1.0000				
competence	0.3154	1.0000			
likability	0.4077	0.3185	1.0000		
trustworthiness	0.2169	0.3801	0.5058	1.0000	
intelligence	0.2778	0.6531	0.2803	0.3632	1.0000

*Note:* All of the reported traits exhibit positive (and statistically significant) correlations with each other. The strongest correlation is the one between competence and intelligence. The weakest is the one between beauty and trustworthiness. Beauty is most strongly correlated with likability. Correlations are similar for students and non-students, with the only statistically significant differences being that students associate trustworthiness less strongly with beauty (correlation 0.199 for students and 0.235 for non-students) and with competence (correlation 0.360 for students and 0.396 for non-students).

**Table A2. Evaluations of elected and non-elected candidates, hypothetical election**

Chosen as	Elected candidates			Non-elected candidates		
	All candidates, percent	Male candidates, percent	Female candidates, percent	All candidates, percent	Male candidates, percent	Female candidates, percent
most beautiful	44.8	32.7	53.3	18.5	11.4	24.9
most competent	59.8	64.4	56.5	14.0	15.9	12.2
most likable	46.7	40.7	51.0	17.6	13.1	21.6
most trustworthy	52.6	49.4	54.8	14.9	11.6	17.9
most intelligent	53.5	58.6	49.9	16.4	18.1	11.5

*Note:* The evaluations of beauty and the other traits are here not inferred from the five-point scale, but are based on choices among four candidates at a time.

**Table A3. Share of elected candidates with scores above average, real elections**

Trait	All elected candidates	Elected male candidates	Elected female candidates
beauty	52.2 %	40.0 %	62.8 %
competence	63.3 %	65.6 %	61.4 %
likability	57.8 %	40.8 %	72.4 %
trustworthiness	56.3 %	40.0 %	70.3 %
intelligence	58.5 %	64 %	53.8 %
# elected candidates	270	125	145

**Table A4. National election regression results including incumbents**

	Vote share female candidates	Vote share male candidates
beauty	1.663*** (0.54)	0.614 (0.63)
competence	0.187 (0.78)	1.204* (0.68)
trustworthiness	0.246 (0.79)	0.448 (0.69)
incumbent	10.27*** (0.90)	12.64*** (0.86)
young	0.0793 (0.057)	0.0568 (0.064)
old	-0.0185 (0.061)	-0.0452 (0.056)
Observations	394	349
R-squared	0.30	0.41

Note: incumbent is a dummy variable for incumbent candidates.  
Standard errors in parentheses. \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

**Table A5. Spearman rank correlations for Helsinki, non-incumbent candidates only**

		All candidates	Male candidates	Female candidates
beauty	Spearman's $\rho$	0.247	0.138	0.278
	Test of H0: beauty and vote share are independent	Prob >  t  = 0.000	Prob >  t  = 0.041	Prob >  t  = 0.000
competence	Spearman's $\rho$	0.134	0.069	0.181
	Test of H0: competence and vote share are independent	Prob >  t  = 0.004	Prob >  t  = 0.311	Prob >  t  = 0.0061
likability	Spearman's $\rho$	0.148	0.062	0.132
	Test of H0: likability and vote share are independent	Prob >  t  = 0.002	Prob >  t  = 0.357	Prob >  t  = 0.047
trustworthiness	Spearman's $\rho$	0.095	-0.063	0.006
	Test of H0: truworthiness and vote share are independent	Prob >  t  = 0.044	Prob >  t  = 0.353	Prob >  t  = 0.926
intelligence	Spearman's $\rho$	0.051	0.013	0.167
	Test of H0: intelligence and vote share are independent	Prob >  t  = 0.284	Prob >  t  = 0.843	Prob >  t  = 0.011
	# candidates	449	220	229



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