# What is More Important? Physical Attractiveness Or General Cognitive Ability As Factors of Career Development 

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Purpose: The investigate the causal and correlation relationships between physical attractiveness, general cognitive ability, career aspirations and age as predictors of career development.

Study design/methodology/approach: The collected qualitative data were analysed with SPSS statistical programme. Basic descriptive statistics were used, and linear regression analysis and correlation analysis since hypotheses related to causal and correlation relationships were tested

Findings: The results show that physical attractiveness strongly and positively affects career development. A bit weaker but negative influence was recognised from the side of individual's age. There is no correlation found between age, cognitive abilities and physical attractiveness.

Originality/value: This research is preliminary research that represents a basis for further investigation of the field and introduces a more complex model that may serve as a base for further research.

Keywords: physical attractiveness, general cognitive ability, career aspirations, age, career development

## Introduction

Several studies on the influence of physical attractiveness on various aspects of human activity, including work performance and career, can be detected in the literature. However, fewer studies focus on the causal relationships between physical attractiveness and work context, especially those dealing with career impacts. Moreover, most of the studies in the literature are not designed to include the aspect of cognitive intelligence or general cognitive ability examining possible interactions between cognitive intelligence and physical attractiveness and their relationship with career and career development.

As we have already indicated, the research problem we intend to address in our paper is based on the conventional dilemma of most influencing an individual's professional career - whether intelligence or physical attractiveness or beauty.

The paper aims to conceptualise and operationalise the variables under the investigation, design a model presenting the context of professional career development and test it on a sample of female respondents. The study is intended to be a base for further research.
The paper is organised into three parts. In the Introduction, the key concepts are shortly introduced, such as physical attractiveness, general cognitive ability or cognitive intelligence, and the concept of career and career development. The relationships between these concepts are outlined as well, resulting in the construction of a research model; however, more in-depth literature is still needed. In the second part of the paper, the research methods used in the study are explained together with statistical analysis, including basic descriptive analysis, as well as testing the research model with the use of linear regression analysis. In the third part of the paper, a short discussion with key findings and suggestions for further research are included.

## The conceptualisation of the research model

## Physical attractiveness as a factor of career performance

Physical attractiveness is the degree to which a person's physical characteristics are considered aesthetically pleasing or beautiful. It is often associated with sexual attraction or desirability. The concept of physical attractiveness includes universal notions common to all cultures. People often attribute other positive qualities, such as intelligence and honesty, to physically attractive people (Definitions, 2021). Science explores physical attractiveness primarily in terms of its impact on social interaction, establishing romantic relationships and friendships, offering help, socio-cultural influences on children, links to ageing standards, student assessment, court convictions, voter preferences, and professionally related situations by perceiving physically attractive individuals with better qualifications for a particular job and better work results, that attractive individuals obtain better recommendations for employment, that they can advance their careers more easily, have higher salaries, etc. (Davison \& McCabe, 2011; Ellis et al., 2019; Frederick et al., 2012; Furnham et al., 2012).

Research shows that physical attractiveness is more important than other, less noticeable personal characteristics of individuals. For example, Weeden and Sabini (2005) find that externally attractive life partners are already seemingly healthier, age-appropriate, reproducible, and as such perceived as suitable for a partner role. Physical attractiveness seems to be important primarily because people associate it with other, favourable characteristics that we expect from others. Because of this, as Fugère (2017) and Fugère et al. (2017) sums up, attractive people are happier and generally have better life experiences than unattractive people experience on average. At first glance, the physical attraction seems to be related to an individual's self-image, that individual's experience by others, and an individual's performance in a social context. As Fugère (2017) and Fugère et al. (2017) point out, such conclusions apply to both sexes and different cultural environments. Nevertheless, a slightly closer look at physical attractiveness distinguishes between levels of attraction. It finds that high levels of attraction are mostly not the most desirable among people who choose partners and that comparability of partners' physical attractiveness is vital for a long-term, successful relationship (Castro et al., 2014).
Talamas et al. (2016), e.g. in their research, examine the impact of physical attractiveness on academic performance, which also significantly affects a student's subsequent performance in the labour market. The regression analysis concludes that academic performance statistically predicts only diligence, and correlation analysis does not confirm the correlation between physical attractiveness and actual academic performance. However, it confirms a strong positive correlation between physical attractiveness and perceived intelligence, as well as perceived academic performance. So it seems that the more physically attractive a student is, the more his environment perceives him to be diligent, intelligent, and academically successful (see also Homan, 2016).

## General cognitive ability as a factor of career performance

The cognitive ability could be closely related to the concept of intelligence. We define intelligence from several aspects. It can be defined as a set of higher-level cognitive abilities such as, e.g. abstract reasoning, mental representation, problem-solving and decision making. It can also be defined as the ability to learn, emotional knowledge and creativity; it can also be perceived as the ability to successfully achieve and meet the requirements that come to the individual from his environment. An IQ test based on the Binet-Simon scale from the early 19th century, for example, is used today to determine an individual's intelligence. Although IQ tests are generally reliable and valid, they have their drawbacks as they do not consider cultural
specificities. In addition to the concept of intelligence, the concept of general cognitive ability (Batty, 2013) may also be in the focus of intelligence-related research. It can be defined as the ability to cope with cognitive complexity, i.e., several mental operations with information, such as recognising similarities, recognising inconsistencies, reasoning and summarising, and perceiving new concepts. General mental abilities could be defined as "intelligence in action."
Research supports the idea that general mental abilities and thus intelligence are a good indicator of career success. Some authors (e.g., Schmidt, \& Hunter, 1998, 2000, 2004) even believe that depending on the type of work and how performance is measured, general mental abilities explain even between $30 \%$ and $70 \%$ of changes in an individual's work performance. With the work performance of individuals, in this case, we primarily aim to assess performance measurement throughout the performance appraisals in the assessment of tasks, planned performance appraisals are done by supervisors and achievement regarding the position in the professional hierarchy. However, some researchers doubt that cognitive ability is essential for individuals' work performance, as "intuition can tell that personality and other non-cognitive traits are more important" (Caplan, 2013; Hunter \& Schmidt, 1970, 1996). Analyses of causeeffect relationships between various work performance factors suggest that general cognitive ability or cognitive intelligence has the most decisive influence on acquiring professional knowledge. Namely, people with a higher level of this ability acquire more of this kind of knowledge; besides, they acquire it faster (Schmidt \& Hunter, 1998, 2000, 2004). Of course, the amount of expertise required in more complex jobs is more significant, which may mean that the cognitive intelligence factor in such positions is more important than in less demanding ones.

## Career - career development and career aspirations

A career can be defined as a pattern of work experience that directs a person's life (Greenhouse et al., 1995). It is, in fact, a job for which one is qualified and in which one is enabled to advance during one's working life. The advancement can be reflected in greater responsibility and higher earnings (Career, n.d.). Therefore, a career is not limited only to work context but also to the entire life path. Svetlik and Zupan (2009) explain that career and its development are one of the critical areas of dealing with people at work. As a result, practically no companies do not pay much attention to the employees' careers and their development. Namely, activities in this field can bring added value and measurable effects at the level of human capital and the entire organisation's operation.
Toit (2013) note that the most frequently listed personal predictors of career success are, for example, demographic predictors such as gender, language groups, marital status and age. There might also be some work-related predictors such as hours worked, work experience, willingness to transfer, occupational tenure, international experience, and accomplishment rating. It seems that job tenure and level of education are robust predictors of subjective career success, which may also be an indicator of another predictor, t. i. subjective career aspirations.

Based on their literature review, Gray and O'Brien (2007) summarise that women's career choices were as either having homemaking or a career orientation decades ago. However, in recent years, research about women's career choices focuses on variables such as degree of career versus family orientation, traditional versus non-traditional career choice, and prestigious versus non-prestigious occupational selection. In their own empirical research, Gray and O'Brien, 2007 also emphasise the importance of leadership and achievement aspirations and educational aspirations, accounted for substantial variance in the career aspiration among primarily white women.

## Research method

## Research model

The purpose of this research is to assess the extent to which an individual's career development is influenced by his general cognitive ability or cognitive intelligence, physical attractiveness and career aspirations. The connection will also be explored in terms of age as one of the factors influencing career development.
The choice of the research methods is based on the logic of the research model presented in Fig.1. Since the research is based on quantitative data and a model compiled based on literature and studies already offering some clearly defined theoretical relationships, we are going to test the following research hypotheses with the use of appropriate statistical tests:
H1: Physical attractiveness has a positive effect on career development.
H 2 : General cognitive ability has a positive effect on career development.
H3: Career preferences have a positive effect on career development.
H4: Age has a negative effect on career development.
H5: Physical attractiveness and general cognitive ability are negatively correlated.
H6: Career aspirations are positively related to physical attractiveness.
H7: Career aspirations are positively related to general cognitive ability.
H8: Age is negatively related to career aspirations.


Figure 1: The research model

## Collecting the data and the sample

Data needed for the statistical analysis was collected by using a questionnaire, which in addition to demographic data (gender, age and job complexity), contained 3 measurement scales requiring answers from the stock of values from 1 to 5 or from 1 to 10 or 1 to 5 (Likert scale). The measurement scales enabled the operationalisation of physical attractiveness, general
cognitive ability, career aspirations and career development. Already validated questionnaires identified in the literature (Ferreira et al., 2013; Gray \& O’Brien, 2007; Swami et al., 2007; Toit, 2013) were used. As already mentioned, the questions will be collected as part of a literature review. The questionnaire was distributed among the respondents with an online survey tool 1KA. The measurement scales are presented in Table 1.
The measurement scales were first checked individual by using Cronbach alpha and afterwards also by exploratory factor analysis. In the latter case, we entered into the analysis all the dependent measurement indicators simultaneously. All the indicators that belonged to more factors would mean too high interdependencies between the factors were removed from the measurement scales. The remaining indicators of individual measurement scales are presented in Table 1. In the next step of the analysis, we calculated the mean values of the measurement indicators and, this way, assigned the values to the independent as well as dependent variables of the investigated model (i.e., career aspiration, physical attractiveness, general cognitive ability, career development).

The sample comprised 48 units. Since the study represents a pilot study of the phenomena and enabled us to implement the envisaged statistical methods, we believe that the results represent a valid and valuable starting point for further research. In the sample, only females were represented, among them $50 \%$ of age between 35 and 44 years, $19 \%$ between 25 and 34 years of age and the rest between 45 and 64 years. $81 \%$ of respondents were employed, $15 \%$ selfemployed, and $4 \%$ unemployed. Regarding education, $58 \%$ of respondents achieved bachelorlevel education, $19 \%$ master or doctoral degree, and $15 \%$ high-school education.

## Analysis and results

## Descriptive statistics

As part of the statistical analysis, which was used to obtain answers to confirm or reject research hypotheses, we performed descriptive statistics (i.e., calculations of arithmetic mean values, standard deviations) and selected methods of inferential statistics to test the research model (i.e., linear regression analysis), and relationships between the physical attractiveness and general cognitive ability.

Table 1: Measurement scales and descriptive statistics

| Career aspiration scale |  | Mean value | Standard deviation |
| :---: | :---: | :---: | :---: |
| CA1 | I hope to become a leader in my career field. | 3.67 | 1.1 |
| CA2 | When I am established in my career, I would like to manage other employees. | 3.38 | 1.07 |
| CA3 | When I am established in my career, I would like to train others. | 4.05 | 0.92 |
| CA4 | I hope to move up through any organisation or business I work in. | 3.81 | 1.08 |
| CA5 | Once I finish the basic level of education needed for a particular job, I see no need to continue in school.* | 4.14 | 1.28 |
| CA6 | I plan on developing as an expert in my career field. | 4.00 | 1.10 |
| CA7 | Attaining leadership status in my career is not that important to me.* | 4.33 | 0.80 |
|  |  |  |  |
| Physical attractiveness scale |  |  |  |
| When I physically compare myself with my colleagues, friends or other known girls, I feel |  |  |  |
| PA1 | Inferior-superior | 6.29 | 1.40 |
| PA2 | Undesirable-more desirable | 6.75 | 1.75 |
| PA3 | Unconfident-more confident | 6.71 | 2.05 |
| PA4 | Ugly-beautiful | 6.38 | 2.34 |
| PA5 | Left out-accepted | 7.54 | 2.55 |
| PA6 | Devalued-valued | 7.58 | 2.30 |


| PA7 | Ignored-looked up | 7.29 | 2.48 |
| :---: | :---: | :---: | :---: |
| PA8 | Less popular-more popular | 6.50 | 1.75 |
| PA9 | Despised-envied | 6.50 | 2.17 |
| General cognitive ability |  |  |  |
| GCA1 | I follow the story in the book I am reading | 3.85 | 0.81 |
| GCA2 | I understand spoken guidelines or instructions | 4.40 | 0.50 |
| GCA3 | I find my car in the parking lot | 4.25 | 0.55 |
| GCA4 | I find my way back to the mall or another place | 4.35 | 0.81 |
| GCA5 | I find my way in a famous neighbourhood | 4.60 | 0.50 |
| GCA6 | I orient myself in a well-known store | 4.65 | 0.49 |
| GCA7 | I orient myself in a house I have visited many times | 4.42 | 0.77 |
| GCA8 | I anticipate weather changes and plan accordingly | 3.40 | 1.05 |
| GCA9 | I plan my schedule in advance for scheduled events | 4.05 | 0.69 |
| GCA10 | I think ahead | 4.40 | 0.50 |
| GCA11 | I manage personal finances without mistakes | 3.85 | 0.75 |
| GCA12 | I keep my financial records organised | 3.80 | 0.83 |
| GCA13 | I use organised strategies to manage my medication schedule | 3.15 | 1.35 |
|  |  |  |  |
| Career development |  |  |  |
| CD1 | I receive positive feedback from all over about my performance | 4.35 | 0.59 |
| CD2 | I am dedicated to my work | 4.43 | 0.51 |
| CD3 | I'm in a position to mostly do jobs that I like | 4.19 | 0.87 |
| CD4 | My co-workers respect me | 4.37 | 0.60 |
| CD5 | I get good performance ratings | 4.62 | 0.50 |
| CD6 | My co-workers accept me | 4.52 | 0.51 |
| CD7 | I have the trust of my superior | 4.35 | 0.75 |
| CD8 | I get good job ratings | 4.60 | 0.50 |
| CD9 | I am happy with my private life | 4.26 | 0.65 |
| CD10 | I enjoy my extracurricular activities | 4.42 | 0.51 |
| CD11 | I am happy with my life in general | 4.16 | 0.69 |
| CD12 | I am dedicated to my work | 4.37 | 0.68 |
| CD13 | I am happy with the progress I have made so far | 4.20 | 0.77 |
| CD14 | I achieve my career goals within the time frame I have set for myself | 3.85 | 0.93 |
| CD15 | I will achieve all my professional goals | 3.90 | 0.72 |
| CD16 | I am in a job that offers opportunities for advancement | 3.85 | 0.81 |
| CD17 | I get fair pay compared to my peers | 3.65 | 0.99 |
| CD18 | I receive a high income compared to my peers | 2.90 | 1.25 |
| CD19 | I earn as much as I find my work worthwhile | 3.10 | 1.41 |

Note: * calculated from reversed scale
As we can see from Table 1, the respondents showed quite strong career aspirations. They highly evaluated their aspiration to attain leadership positions ( $\mathrm{m}=4.33$ ), continue with further training after finishing basic schooling ( $\mathrm{m}=4.14$ ), and also take on the role of a trainer of their co-workers ( $\mathrm{m}=4.05$ ). They also showed strong intentions to become an expert in their career fields $(\mathrm{m}=4.00)$. On the other hand, the aspiration to manage other employees after completing their professional careers shows to be relatively weaker $(\mathrm{m}=3.38)$.
On a general level, the self-image of physical attractiveness seems quite pleasing among the respondents (all items are higher than 6.28 on the scale from 1 to 10). It appears that the respondents feel to be valued, accepted and looked up to. It should be stressed that the findings are based on the subjective comparison between a respondent and her friends, colleagues or familiar people in her social context.

General cognitive ability is also quite high evaluated by the respondents. As shown in Table 1, all the items have a value above 3 which somehow indicates a medium value. The highest abilities self-graded by the respondents are space orientation in a well-known store ( $\mathrm{m}=4.65$ ),
in their neighbourhood ( $\mathrm{m}=4.60$ ), or finding back from a location $(\mathrm{m}=4.35)$ and finding a car $(\mathrm{m}=4.25)$ as well as communication-related cognitive abilities such as understanding spoken words ( $\mathrm{m}=4.40$ ), and planning skills like thinking ahead $(\mathrm{m}=4.40)$ and scheduling in advance ( $\mathrm{m}=4.05$ ).
When analysing the dependent variable, i.e. career development, we can also conclude that the average values of the measurement variables are pretty high. The respondents especially emphasise their work performance, i.e., good performance ratings ( $\mathrm{m}=4.62$ ), good job ratings $(\mathrm{m}=4.60)$, positive feedback from all over about job performance (4.35); good relationships established at work, i.e., acceptance by the co-workers (4.52) as well as their respect (4.37); individuals' dedication to their work (4.43), as well as opportunities to learn, for example as a part of extracurricular activities (4.42). The lowest assigned value belongs to receiving a high income compared to peers ( $\mathrm{m}=2.90$ ).

## Inference statistics

Multiple regression analysis was used to test if respondents' career aspiration, assessments of physical attractiveness, and general cognitive ability and the respondents' age significantly predict their ratings of career development. The results of the linear regression analysis indicate that the four predictors explain $53.3 \%$ of the variance $\left(R^{2}=0.73, F(4,15)=4.28, \mathrm{p}<0.05\right)$, which is a rather good result of the analysis. It was found that career development is statistically significantly predicted by physical attractiveness ( $\beta=0.50, \mathrm{p}<0.05$ ) and age of the respondents ( $\beta=-0.44, p<0.05$ ). On the other hand, general cognitive ability and career aspiration do not seem to be statistically significant predictors of career development. We can somehow conclude that self-perception of physical attractiveness relatively strongly predicts the career development of an individual. However, it can be relatively strongly influenced by the individual's age. The older an individual is, the lesser is the self-perceived probability of career development.

We also tested the correlation between the two predictors of career development - physical attractiveness and general cognitive ability. The relationship between the two variables showed a non-significant correlation of $\mathrm{r}=-0.8, \mathrm{p}>0.05$, which means that we cannot assume an interrelation between the perception of physical attractiveness and perception of general cognitive ability.

Also, correlation analysis was done to test relationships between career aspirations, general cognitive ability and an individual's age. All the relationships were found to be negative; however, statistically non-significant.

## Discussion and conclusions

As we conclude in Table 2, physical attractiveness, at least its perception, has a strong and positive influence on career development. It seems that women who consider themselves as valued, accepted and looked up may have better career achievements such as self-perceived work performance, quality social relationships established at work or realisation of opportunities to learn.

Another finding of this research relates to the age of an individual. Statistical analysis somehow confirms general beliefs saying that an increase in individuals' age decreases career development possibilities. Interestingly, the analysis does not show any correlation between age and career development. One would expect a negative correlation.

Surprisingly, the analysis does not show any relationship between career aspirations and career development, neither any correlation between career aspirations and other variables such as physical attractiveness, general cognitive ability or age.
Our research findings might even confirm general beliefs about career development and job promotion. Namely, individuals perceived as younger and more physically attractive have better chances for advancement at work, regardless of their career aspirations and general cognitive abilities.

Table 2: Testing the hypotheses

| H1 | Physical attractiveness has a positive effect on career development. | Confirmed |
| :--- | :--- | :--- |
| H2 | General cognitive ability has a positive effect on career development. | Rejected |
| H3 | Career preferences have a positive effect on career development. | Rejected |
| H4 | Age has a negative effect on career development. | Confirmed |
| H5 | Physical attractiveness and general mental ability are negatively correlated. | Rejected |
| H6 | Career aspiration is positively related to physical attractiveness. | Rejected |
| H7 | Career aspiration is positively related to general cognitive ability. | Rejected |
| H8 | Age is negatively related to career aspirations. | Rejected |

The research has, of course, some limitations. First, it is a relatively small sample that may bias the findings and the restriction of gender since only female respondents participated in the research. Further, the questionnaire might also be a limitation since the data is based on strictly subjective ratings of physical attractiveness and other variables. The model might be upgraded based on further literature review. For further investigation, we also suggest upgrading the model by introducing additional relevant latent variables and connections between them.

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