Fans' Responses to the National Basketball Association's (NBA) Pilot Jersey Sponsorship Program: An Experimental Approach

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Abstract. During the 2017–18 season, the National Basketball Association (NBA) began a three-year pilot program to allow 9 corporate sponsors' logo patches on game jerseys. Considering this, there is little evidence on how international and domestic 10 NBA fans would respond to this new initiative. Accordingly, we conducted an online experiment to investigate the effects 11 of market-, team-, manufacturer-, and individual-related factors on fans' perceptions toward various potential NBA jersey 12 sponsors. We developed 180 fictitious press releases that informed participants about their favorite team coming to terms on 13 a sponsorship deal with a specific corporation. This resulted in the creation of 360 graphic renderings of sponsored NBA 14 team jerseys as research stimuli. We utilized a crowdsourcing platform to collect the data (N=621). Overall, our findings 15 provide useful and actionable insights for managers to understand what may impact fans' reactions to the NBA's new pilot 16 sponsorship program. 17

18 Keywords: National basketball association (NBA), jersey sponsorship, marketing, branding

19 **1. Introduction**

The sponsorship of athletes' and teams' jerseys 20 is considered one of the prime branding assets that 21 a corporation can attain (Smith, 2016). A sponsors' 22 logo on the team jersey can help firms to increase 23 brand exposure and can also provide opportunities 24 for these parties to use it as a platform for brand acti-25 vations. Given the amount of exposure opportunity 26 to massive audiences around the globe, jersey spon-27 sorship comes with a high price tag. For instance, 28 F.C. Barcelona, one of the most prominent La Liga 29 clubs from Spain, signed a jersey sponsorship deal 30 with Japanese e-commerce firm, Rakuten, worth \$58 31

million a year (BBC, 2016). Likewise, Manchester United, an English Premier League club, signed a record seven-year deal with Chevrolet in 2014, which is worth \$80 million a year (Smith, 2016).

While placing a corporation's logo on jerseys is a common sponsorship inventory in soccer, professional sports leagues in North America have not yet capitalized on such monetary benefits, in the manner of clubs in Europe. Notwithstanding, in 2016, the National Basketball Association (NBA) Board of Governors approved the three-year pilot program to allow all NBA teams to sell jersey sponsorships, in which players would sport corporate logos on their uniforms beginning in the 2017-18 season (Garcia, 2016). The NBA's decision to allow jersey sponsors is the first among the four major leagues (i.e., National Football League [NFL], Major League Baseball [MLB], National Hockey League [NHL], 32

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| Team | Sponsor | Sponsor's Headquarters | Amount per year (if disclosed | | | | |
|------------------------|----------------------|------------------------|-------------------------------|--|--|--|--|
| Atlanta Hawks | Sharecare | Atlanta, GA | _ | | | | |
| Boston Celtics | General Electric | Boston, MA | \$8M | | | | |
| Brooklyn Nets | Infor | New York City, NY | \$8M | | | | |
| Charlotte Hornets | Lending Tree | Charlotte, NC | _ | | | | |
| Cleveland Cavaliers | Goodyear | Akron, OH | \$7–10M | | | | |
| Denver Nuggets | Western Union | Englewood, CO | | | | | |
| Detroit Pistons | Flagstar Bank | Troy, MI | | | | | |
| Golden State Warriors | Rakuten | Tokyo, Japan | \$20M | | | | |
| Los Angeles Clippers | Bumble | Austin, TX | \$7M | | | | |
| Los Angeles Lakers | Wish | San Francisco, CA | \$12–14M | | | | |
| Miami Heat | Ultimate Software | Weston, FL | _ | | | | |
| Milwaukee Bucks | Harley-Davidson | Milwaukee, WI | - | | | | |
| Orlando Magic | Disney | Orlando, FL | - | | | | |
| Minnesota Timberwolves | Fitbit | San Francisco, CA | _ | | | | |
| New Orleans Pelicans | Zatarain's | New Orleans, LA | _ | | | | |
| New York Knicks | Squarespace | New York City, NY | _ | | | | |
| Philadelphia 76ers | Stubhub | San Francisco, CA | \$5M | | | | |
| Sacramento Kings | Blue Diamond Almonds | Sacramento, CA | \$5M | | | | |
| Toronto Raptors | Sun Life | Toronto, Canada | - | | | | |
| Utah Jazz | Qualtrics | Provo, UT | \$4M | | | | |

 Table 1

 List of NBA teams, their jersey sponsors, and location of sponsor's headquarters

Note. As of May 23, 2018, ten teams still do not have jersey sponsors. Sources: Kutz (2017); Lombardo (2018).

and NBA) in North American professional sports
 history.

Each team is responsible for selling the inventory 52 and the logo will appear on the front right of the game 53 jerseys, opposite the logo of the official manufacturer 54 of NBA game apparel, Nike. The patches will mea-55 sure 21/2-by-21/2 inches. To note, before Nike became 56 the official manufacturer of the NBA, no manufac-57 turer logo had previously appeared on NBA uniforms. 58 It remains interesting to examine if the presence of 59 the Nike "swoosh" on the uniform may also affect 60 sponsor evaluations. 61

Having a brand logo on jerseys certainly brings 62 additional revenue for each team. According to the 63 NBA's authorization of jersey advertising, teams will 64 retain 50 percent of the revenue generated by their 65 individual patches, with the other 50 percent being 66 shared equally among the league's 30 teams (Lefton 67 & Lombardo, 2016). Such a revenue sharing program 68 will help smaller market teams (e.g., the Milwaukee 69 Bucks, New Orleans Pelicans, Utah Jazz) to gain 70 more than the face value for their patch. Industry 71 experts have estimated that the patch inventory may 72 cost between \$1 million and \$10 million per year, 73 depending on the team's market size and popular-74 ity (Lefton & Lombardo, 2016). For instance, the 75 Philadelphia 76ers became the first NBA team to 76 sign a jersey sponsorship deal with StubHub, which 77 is reported to be worth \$15 million over three years 78 (Rovell, 2016). The Golden State Warriors, who won 79

their fifth NBA Championship in the 2016-17 season and most recently their second-straight and sixth title following the 2017-18 season, agreed to the league's largest jersey sponsor deal with Japanese e-commerce company, Rakuten. This agreement is reported to be worth more than \$20 million per year, surpassing previous projections (Brown, 2017).

While it seems apparent that teams will earn more money from this "pilot program," it remains unknown what factors would affect how fans may respond to jersey sponsors, as this will be a novel instance for NBA fans. More notably, it is important for marketers to have empirical evidence directly from consumers to understand what influences the valuation of iersev sponsors. Given that there are still teams that do not have a jersey sponsor in the first year of its pilot program (see Table 1), findings of this study will provide practical insights from the consumer's perspective. Therefore, the purpose of this study is to provide empirical evidence on how fans would respond to jersey sponsors by incorporating various market-(i.e., market size, brand prominence), manufacturer-(presence/absence of Nike logo), team- (i.e., team's playoff status), and individual-related (i.e., domestic/international, team identification level) factors.

1.1. Hypothesis development

From a theoretical standpoint, Gwinner's (1997) ¹⁰⁶ image transfer model provides a useful framework to ¹⁰⁷

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Table 2 Demographics of obtained sample

| Characteristic | Frequency | Percent |
|------------------------------------|-----------|---------|
| Origin | | |
| Domestic (U.S.) | 335 | 53.9% |
| International | 286 | 46.1% |
| Gender | | |
| Male | 441 | 71.0% |
| Female | 180 | 29.0% |
| Ethnicity | | |
| Caucasian or White | 312 | 50.2% |
| Asian or Pacific Islander | 211 | 34.0% |
| Hispanic or Latino | 38 | 6.1% |
| Black or African American | 32 | 5.2% |
| Two or more races | 13 | 2.1% |
| Native American or American Indian | 11 | 1.8% |
| Other | 4 | 0.6% |
| Age | | |
| <32 years | 355 | 57.2% |
| \geq 32 years | 266 | 42.8% |

understand how jersey sponsors might be perceived 108 by fans. The basic premise of the model is that spon-109 sors want to tap into positive images and loyalty 110 associated with a sponsee (e.g., team) by pairing its 111 brand with the property. Through sponsorship, spon-112 sors expect positive emotions and attitudes affiliated 113 with the team to carry over to them. Among differ-114 ent sponsorship inventories, jersey sponsorship offers 115 more direct exposure opportunities than other inven-116 tories (e.g., LED billboards) that may well go beyond 117 a game. For instance, brands can appear in highlight 118 videos, promotional videos, player interviews, and 119 photographs on both traditional and social media. 120 Therefore, one could expect that positive image trans-121 fer will occur through repeated exposure among fans 122 of the team. 123

1.1.1. Performance

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Extensive research in sponsorship has shown var-125 ious antecedents and boundary conditions that either 126 facilitate or impede transfer of images. From the 127 image transfer perspective, we can speculate that 128 teams with strong performance will help facilitate 129 image transfer. Strong performance of a team will 130 likely prompt fans to bask-in-reflected-glory (BIRG; 131 Cialdini et al., 1976), which will likely heighten pos-132 itive image transfer between the team and sponsor. 133 Empirical study by Ngan and her colleagues (2011) 134 also found a direct positive effect of a team's suc-135 cess on the purchase intent of a sponsor. As such, it 136 is reasonable to expect that the team's success (e.g., 137 measured via advancing into the playoffs) will have 138 a positive impact on jersey sponsor evaluations. 139

1.1.2. Team identification

Based on the literature, one individual factor that will have robust impact on sponsor evaluation is fans' level of identification with the team (Gwinner & Swanson, 2003; Meenaghan, 2000). Fans who have a strong allegiance with the team might have more favorable evaluations toward the sponsor than fans who are less attached to the team (Gwinner & Swanson, 2003). Put simply, the closer fans identify themselves with the team, the more favorable evaluations they will have toward the sponsor (Meenaghan, 2000). In line with previous research, we also expect that fans' level of identification with the team will augment positive evaluations toward the jersey sponsor.

1.1.3. Market size

From a practical standpoint, it seems reasonable to expect that teams in large markets might be valued more positively than teams in small markets. This speculation is based on the sponsorship practice that a sponsors' value is determined by its potential reach and exposure. Given that jersey sponsors will have more prominent exposure opportunities than other on-site sponsor inventories, the chances are high that the jersey sponsor will be exposed via highlight videos, interviews, and photos in local media. Thus, teams located in larger markets might have greater exposure opportunities than teams in smaller markets. However, it remains undetermined whether consumers' perceptions toward their team's sponsor will be a function of the team's geographic market size. Thus, the current study seeks to extend extant literature by investigating the impact of market size on jersey sponsor evaluation.

1.1.4. Sponsor brand prominence

In addition, the present study considers brand prominence as another relevant factor in the research model. At the time of writing, NBA jersey sponsors range from relatively lesser known brands (e.g., Qualtrics' Cancer Charity) to more prominent brands like Fortune 500 companies (e.g., General Electric). While some researchers have examined "perceived" brand prominence as a positive predictor of sponsor evaluation (Han, Nunes, & Drèze, 2010; Wakefield & Bennett, 2010), little is known whether the sponsoring brand's actual prominence will impact sponsor evaluation. That is, do prominent brands (e.g., Fortune 500 companies) receive more favorable responses than less prominent brands (e.g., non-Fortune 500 companies)? In order to provide

| | 1 | | | | | Δ. | alveic | of cov | oriona | | Table 3 | | a for hr | and ind | liastor | | | | | | | | | | |
|-------------------------|---|-------|-------|------|------------------|-------|--------|--------|--------|--|-----------------------|-------|----------|---------|------------------|------------------|-------|-------|------|------------------|----------------|-------|-------|------|------------------|
| | $\frac{B_{Pdiff}}{B_{Fdiff}} = \frac{B_{Fdiff}}{B_{Fdiff}}$ | | | | | | | | | COVA) results for brand indicators $\frac{B_{att}}{B_{att}}$ | | | | | | B _{awr} | | | | | B _C | | | | |
| Source | M_1 | M_2 | F | p | $\eta_{\rm p}^2$ | M_1 | M_2 | F | р | $\eta_{\rm p}^2$ | M_1 | M_2 | F | р | $\eta_{\rm p}^2$ | M_1 | M_2 | F | р | $\eta_{\rm p}^2$ | M_1 | M_2 | F | p | $\eta_{\rm p}^2$ |
| Origin | 0.42 | 0.35 | 0.29 | 0.59 | *** | 0.31 | 0.48 | 2.47 | 0.12 | *** | 4.81 | 5.42 | 52.03 | *** | 0.08 | 4.37 | 4.88 | 12.88 | *** | 0.02 | 4.87 | 5.40 | 43.71 | *** | 0.07 |
| Team market size | 0.42 | 0.35 | 0.30 | 0.59 | *** | 0.34 | 0.45 | 0.88 | 0.35 | *** | 5.07 | 5.15 | 0.77 | 0.38 | *** | 4.55 | 4.71 | 1.03 | 0.31 | *** | 5.10 | 5.17 | 0.68 | 0.41 | *** |
| Team playoff status | 0.40 | 0.37 | 0.04 | 0.83 | *** | 0.35 | 0.44 | 0.69 | 0.41 | *** | 5.04 | 5.18 | 2.29 | 0.13 | *** | 4.51 | 4.74 | 2.24 | 0.14 | *** | 5.07 | 5.20 | 2.29 | 0.13 | *** |
| TI | 0.32 | 0.45 | 0.96 | 0.33 | *** | 0.37 | 0.42 | 0.21 | 0.65 | *** | 5.39 | 4.83 | 45.94 | *** | 0.07 | 4.82 | 4.30 | 7.78 | 0.01 | 0.01 | 5.38 | 4.89 | 38.75 | *** | 0.06 |
| Brand prominence | 0.19 | 0.58 | 10.14 | *** | 0.02 | 0.30 | 0.49 | 3.44 | 0.06 | 0.01 | 5.38 | 4.84 | 40.91 | *** | 0.06 | 4.83 | 4.42 | 8.33 | *** | 0.01 | 5.43 | 4.83 | 56.76 | *** | 0.09 |
| Logo | 0.52 | 0.25 | 4.77 | 0.03 | 0.01 | 0.43 | 0.36 | 0.37 | 0.54 | *** | 5.16 | 5.07 | 1.12 | 0.29 | *** | 4.69 | 4.56 | 0.93 | 0.34 | *** | 5.16 | 5.11 | 0.49 | 0.49 | *** |
| Brand prominence × Logo | | | 1.41 | 0.24 | *** | | | 5.84 | 0.02 | 0.01 | | | 0.11 | 0.74 | *** | | | 2.18 | 0.14 | *** | | | 0.01 | 0.93 | *** |
| Covariate | | | | | | | | | | Y | | | | | | | | | | | | | | | |
| Gender | 0.40 | 0.37 | 0.03 | 0.85 | *** | 0.30 | 0.49 | 2.43 | 0.12 | *** | 5.12 | 5.10 | 0.08 | 0.78 | *** | 4.76 | 4.49 | 3.11 | 0.08 | 0.01 | 5.18 | 5.09 | 1.01 | 0.32 | *** |
| Model R ² | | | 0.03 | | | | | 0.02 | | , , | $\boldsymbol{\wedge}$ | | 0.19 | | | | | 0.06 | | | | | 0.20 | | |

Note. *** = <0.001. Origin: 1 = domestic, 2 = international; Team market size: 1 = large market, 2 = small market; Team playoff status: 1 = playoff-team, 2 = non-playoff team; TI: 1 = avid fan, 2 = casual fan; Brand prominence: 1 = high, 2 = low; Logo: 1 = present, 2 = absent; Gender: 1 = male, 2 = female. le. Dogf

an answer to this question, we manipulated sponsor
 prominence in this study by selecting brands from
 Fortune 500 and non-Fortune 500 corporations as
 research stimuli.

194 1.1.5. Manufacturer logo

From the start of the 2017-18 season, the jersey 195 sponsor's logo will appear next to the apparel manu-196 facturer logo (i.e., Nike's "swoosh" logo). However, 197 it remains unknown whether such a heuristic cue 198 (i.e., the "swoosh" logo) can influence consumers' 199 perception of sponsors. In the licensed merchan-200 dise consumption context, scholars have found that 201 heuristic cues, such as a brand or manufacturer logo. 202 has a significant impact on increasing product evalua-203 tion and purchase intent (Kwak, Kwon, & Lim, 2015; 204 Kwon, Kim, & Mondello, 2008). In particular, Kim 205 et al. (2008) found that consumers had more positive 206 attitudes toward licensed apparel when the product 207 had a Nike logo compared to other products bear-208 ing different logos. As such, we propose that having 209 a manufacturer's logo (i.e., Nike) on the jersey will 210 have a positive carryover effect such that consumers 211 will view the sponsor in a more favorable way than 212 when the manufacturer's logo is absent. We expect 213 that Nike's swoosh logo will serve as a heuristic cue 214 (Kwak et al., 2015) to signal high perceived value of 215 the sponsoring brand. 216

217 1.1.6. Fan origin

In addition, the present study considers fans origin 218 - domestic versus international audiences. Consider-219 ing the international reach of the NBA, it is worth 220 exploring how fans from different origins respond to 221 jersey sponsors. While no previous studies inform 222 the direction of this hypothesis, we believe findings 223 of this study will provide useful insights on how con-224 sumers from different markets respond to this pilot 225 program. Therefore, we measured respondents' ori-226 gin (domestic and international) and included it in the 227 research model. 228

229 1.2. Contributions

The current study makes several contributions 230 to the field. First, multiple factors are simultane-231 ously considered in an effort to encompass various 232 forces that might affect fans' perceptions toward 233 jersey sponsors. Thus, findings of our study will 234 provide initial evidence on how NBA fans respond 235 to jersey sponsors. Second, our study advances the 236 marketing research methodology by producing an 237

experiment that allows each participant to respond to a graphic rendering of their favorite team's jersey. This customized procedure allows researchers to avoid alternative hypotheses, which can be derived from participants answering questions that are irrelevant to them (e.g., inquires unrelated to the fans' favorite teams) or findings that are limited to one or simply a handful of specific fanbases (e.g., only fans of the Detroit Pistons). In addition, utilizing actual companies as sponsors in the research stimuli further enhances the external and ecological validity of our study. Therefore, our study aims to demonstrate how experimental research can aid in providing practitioners with data-driven, actionable evidence to inform their marketing operations.

2. Methodology

2.1. Subjects and design

The current study utilized a 2 (manufacturer logo: present, absent) $\times 2$ (sponsor prominence: high, low) between-subjects design. We determined the necessary sample size in order to achieve power conditions $(1 - \beta = 0.80, \alpha = 0.05, \text{ medium effect size})$ using G*Power, a program that enables researchers the ability to compute requisite statistical power for various analyses (Faul, Erdfelder, Buchner, & Lang, 2009). Thus, to satisfy these requirements, we needed approximately 270 participants. Data collection occurred prior to the 2017-18 NBA season. A total of 621 self-identified NBA fans ($M_{age} = 32.03$ years, SD = 10.06) participated in this study. Subjects were recruited from Amazon Mechanical Turk (MTurk) and were compensated \$0.50 for their participation. Table 2 provides the demographic characteristics of our sample.

2.2. Stimuli and procedure

The present experiment was conducted online through Qualtrics Survey Software. Subjects were informed that they would be participating in a study about their favorite NBA team. Subjects first provided their informed consent and indicated if they were above the age of 18 and if they were fans of the NBA. Individuals who did not meet these criteria were unable to partake in our experiment. Subjects then designated their favorite NBA team and were randomly assigned to view an article about a corporation sponsoring their favorite team's jerseys.

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|----------------------------------|-------|-------|-----------|------|------------------|------------|-------|--------|------|------------------|--|--|--|--|
| Source | M_1 | M_2 | F | р | $\eta_{\rm p}^2$ | M_1 | M_2 | F | р | $\eta_{\rm p}^2$ | | | | |
| Origin | 4.29 | 5.08 | 51.29 | *** | 0.08 | 4.82 | 5.51 | 49.45 | *** | 0.08 | | | | |
| Team market size | 4.62 | 4.75 | 1.00 | 0.32 | *** | 5.16 | 5.16 | *** | 0.96 | *** | | | | |
| Team playoff status | 4.65 | 4.72 | 0.39 | 0.54 | *** | 5.13 | 5.19 | 0.32 | 0.57 | *** | | | | |
| TI | 5.08 | 4.28 | 54.48 | *** | 0.08 | 5.76 | 4.56 | 152.24 | *** | 0.20 | | | | |
| Brand prominence | 4.95 | 4.42 | 23.95 | *** | 0.04 | 5.17 | 5.16 | 0.01 | 0.93 | *** | | | | |
| Logo | 4.68 | 4.69 | 0.01 | 0.93 | *** | 5.16 | 5.17 | 0.01 | 0.94 | *** | | | | |
| Brand prominence $\times \log o$ | | | 0.64 | 0.43 | *** | | | 0.26 | 0.61 | *** | | | | |
| Covariate | | | | | | | | | | | | | | |
| Gender | 4.78 | 4.59 | 2.63 | 0.11 | *** | 5.14 | 5.19 | 0.18 | 0.67 | *** | | | | |
| Model R ² | | | 0.18 | | | | | 0.25 | | | | | | |

 Table 4

 Analysis of covariance (ANCOVA) results for purchase behaviors

Note. **** = <0.001. Origin: 1 = domestic, 2 = international; Team market size: 1 = large market, 2 = small market; Team playoff status: 1 = playoff-team, 2 = non-playoff team; TI: 1 = avid fan, 2 = casual fan; Brand prominence: 1 = high, 2 = low; Logo: 1 = present, 2 = absent; Gender: 1 = male, 2 = female.

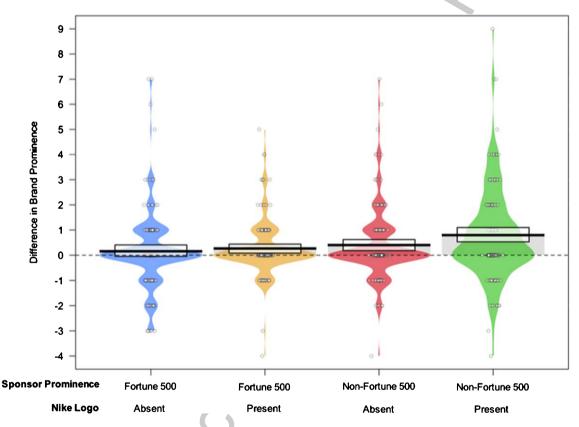


Fig. 1. Pirateplot displaying group comparisons for differences in brand prominence. The black horizontal bars display the group means, the circular points symbolize the raw data, the colored beans represent smoothed density, and the grey rectangle provides 95% Bayesian Highest Density Intervals (HDIs; see Phillips, 2017 for a description of pirateplots).

Prior to viewing the article, subjects provided an assessment of perceived brand prominence and favorability toward the potential sponsor. To enhance the plausibility of the sponsorship deal, the researchers generated fictitious articles from a reputable news source (i.e., the Associated Press) reporting that the participants' identified team had struck a deal with a

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specific corporation to place a sponsorship patch on team jerseys. The stimuli for the current study were developed using Adobe Photoshop Creative Cloud[®]. Potential sponsors for the jerseys were selected from a pool of Fortune 500 (high sponsor prominence) and non-Fortune 500 (low sponsor prominence) corporations. Two companies were chosen from the airline

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(Delta, Spirit), automotive (Ford, Panoz), and technology (Intel, Corsair) industries to reflect the varying
levels of sponsorship prominence. Based on these categories, a total of 180 articles were created for the
experiment.

A graphic rendering of the jersey, with the manu-303 facturer logo (Nike) randomly present or absent, was 304 then displayed to subjects. A total of 360 possible 305 graphic renderings of NBA team jerseys were created. 306 All participants were exposed to the home jersey of 307 their identified teams. Appendices A and B contain 308 samples of the articles and jersey stimuli used in the 309 current study. Following this, subjects were asked to 310 complete a randomized battery of measures and were 311 again asked about the perceived brand prominence 312 and favorability regarding the manipulated sponsor. 313 After responding to these questionnaires, subjects 314 were debriefed and thanked for their contribution. 315 Finally, they were then provided a code to receive 316 compensation for their participation. 317

318 2.3. Measures

The current study utilized a series of established 319 measures from prior research, each responded to 320 with a 7-point scale. These measures were modi-321 fied to the subject's favorite team and manipulated 322 sponsor where appropriate, to gauge several princi-323 pal variables, those being: team identification (TI; 324 Wann & Branscombe, 1990), brand prominence (B_P; 325 Han, Nunes, & Drèze, 2010), brand favorability (B_F; 326 Spalding, Cole, & Fayer, 2009), brand attitude (Batt; 327 Janssen, Fransen, Wulff, & Reijmersdal, 2016; van 328 Noort & Willemsen, 2012), brand awareness (Bawr; 329 Yoo & Donthu, 2001), brand credibility (B_C; Newell 330 & Goldsmith, 2001), and *purchase intent* of both the 331 sponsoring brand and team jersey (PIbr and PIjsy; 332 Dodds, Monroe, & Grewal, 1991; Moon, Chadee, 333 & Tikoo, 2008; Sweeney, Soutar, & Johnson, 1999). 334 These measures and their respective reliabilities are 335 listed in Appendix C. 336

337 **3. Results**

338 3.1. Data analysis

We performed a series of analyses of covariance (ANCOVAs), using gender as a covariate, in order to examine the effects of our independent variables. We explored the impact of the subject's origin, playoff status of the identified team, market size of the identified team, and the fans' team identification levels. We conducted a median split on scores on the team identification measure (Mdn = 5.00) to categorize subjects as either avid (n = 313; M = 5.56, SD = 0.49) or casual fans (n = 308; M = 4.15, SD = 0.68). The two groups of fans were significantly different from each other based on the results of a Welch-corrected ANOVA on group means obtained from the team identification measure, F(1, 556.25) = 862.40, p < 0.001, d = 2.38.

3.2. Main effects

3.2.1. Brand measures

As reported in Table 3, the results from the ANCO-VAs for the effects of the aforementioned variables on the brand measures revealed that international consumers provided significantly higher ratings of brand attitude, awareness, and credibility than domestic consumers. This was also the case for more avid fans of the team in comparison to more casual NBA fans, as well as subjects presented highly prominent brands compared to those exposed to less prominent ones. In addition, brand prominence scores significantly increased for subjects exposed to sponsors of higher prominence than those presented less prominent brands. Furthermore, subjects who viewed the manufacturer logo of Nike on their favorite team's jersey experienced a higher change in brand prominence ratings compared to those who did not see the logo.

3.2.2. Purchase intent

Our investigation of purchase intent, illustrated in Table 4, yielded significant differences between international and domestic consumers such that international consumers were more likely to purchase both a sponsoring brand's products/services and the corresponding team jersey sponsored by the same entity. Additionally, avid fans also displayed these same differences when contrasted against casual fans. Our analyses also revealed significant differences in the purchase intention of a sponsoring brand's products/services between subjects shown brands of high prominence compared to those presented less prominent brands. To note, team market size and playoff status did not play a significant role in any of the brand measures or purchase behaviors. Ultimately, inspection of the covariate gender differences yielded no significant variations between males and females on any of the outcomes.

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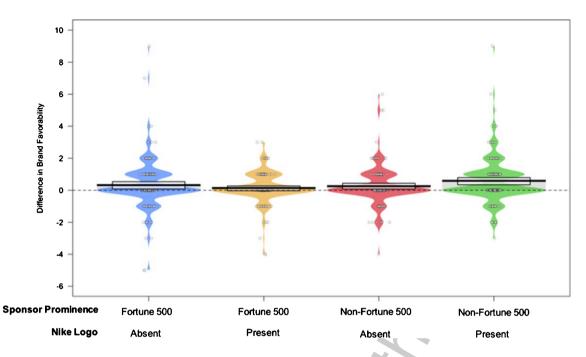


Fig. 2. Pirateplot displaying group comparisons for differences in brand favorability.

392 3.3. Interaction effect and group differences

3.3.1. Brand prominence

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While the overall brand prominence $\times \log O$ 394 interaction term was only significant for brand favor-395 ability, review of the post-hoc tests using Tukey's 396 Honestly Significant Difference (HSD) test revealed 397 additional differences per group for several out-398 comes. Specifically, fans presented sponsored jerseys 399 of less prominent brands with the manufacturer 400 logo exhibited a significantly higher change in 401 brand prominence ratings than those shown jer-402 seys including highly prominent brands both with 403 (MD = 0.53, p = 0.01, 95% CI [0.09, 0.97]) and with-404 out (MD = 0.64, p = 0.001, 95% CI [0.21, 1.07])405 the Nike manufacturer logo. Figure 1 depicts these 406 results. 407

408 3.3.2. Brand favorability

With respect to changes in brand favorability (see Fig. 2 for a summary), fans exposed to jerseys sponsored by brands of low prominence with the manufacturer logo experienced greater changes than those presented jerseys with highly prominent sponsoring brands with the manufacturer logo (MD = 0.45, p = 0.02, 95% CI [0.06, 0.84]).

3.3.3. Brand attitudes and credibility

Subjects presented jerseys with sponsors of high 417 prominence with the manufacturer logo offered 418 significantly higher brand attitudes and ratings of 419 credibility than those shown jerseys with brands of 420 low prominence both with $(MD_{Batt} = 0.51, p < 0.001,$ 421 95% CI 0.18, 0.84]; $MD_{BC} = 0.51, p < 0.001, 95\%$ CI 422 [0.20, 0.81]) and without $(MD_{Batt} = 0.68, p < 0.001,$ 423 95% CI [0.35, 1.02]; $MD_{BC} = 0.71$, p < 0.001, 95% 424 CI [0.39, 1.02]) the Nike manufacturer logo. These 425 differences between low prominent brands both 426 with $(MD_{Batt} = 0.40, p = 0.01, 95\% \text{ CI } [0.08, 0.72];$ 427 $MD_{BC} = 0.51, p < 0.001, 95\%$ CI [0.20, 0.81]) and 428 without (MD_{Batt} = 0.57, p < 0.001, 95% CI [0.25, 429 0.90]; *MD*_{BC} = 0.60, *p* < 0.001, 95% CI [0.29, 0.91]) 430 the manufacturer logo were also evident when com-431 pared to fans presented such highly prominent brand 432 sponsored jerseys without the Nike logo. Figure 3 433 provides a graph of these results. 434

3.3.4. Brand awareness

In addition, fans shown sponsored jerseys with brands of lower prominence without the Nike logo reported lower brand awareness than subjects who observed jerseys with highly prominent brand sponsors both with (MD = -0.59, p = 0.02, 95% CI [-1.12,

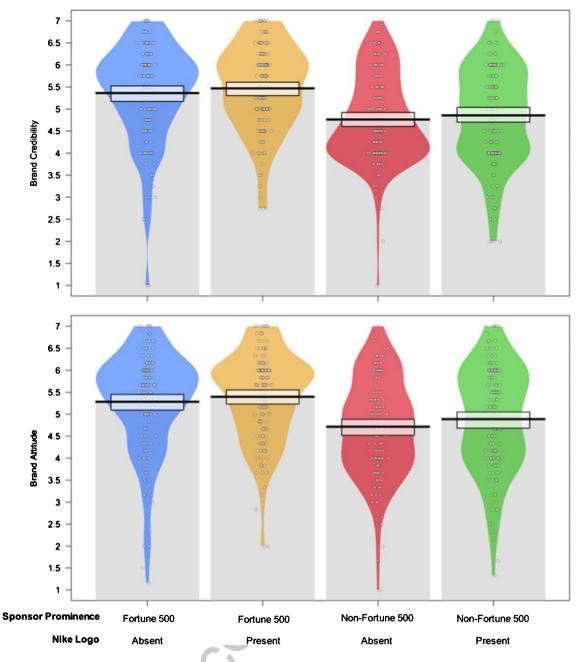
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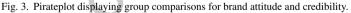
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-0.06]) and without (MD = -0.63, p = 0.01, 95% CI 441 [-1.14, -0.11]) the manufacturer logo (see Fig. 4). 442

3.3.5. Purchase intent 443

Lastly, fans who were shown jerseys with 444 highly prominent sponsoring brands both includ-445 ing (MD = 0.45, p = 0.04, 95% CI [0.02, 0.88]) and 446 excluding (MD = 0.48, p = 0.02, 95% CI [0.07, 0.90])447

the Nike manufacturer logo expressed a greater will-448 ingness to purchase that brand's products/services than individuals exposed to jerseys of less prominent sponsors with the Nike logo. These differences between subjects presented highly prominent sponsoring brands with (MD=0.60, p=0.003, 95% CI [0.16, 1.03]) and without (MD = 0.63, p = 0.001, 95%)CI [0.20, 1.05]) the manufacturer logo were identical 455

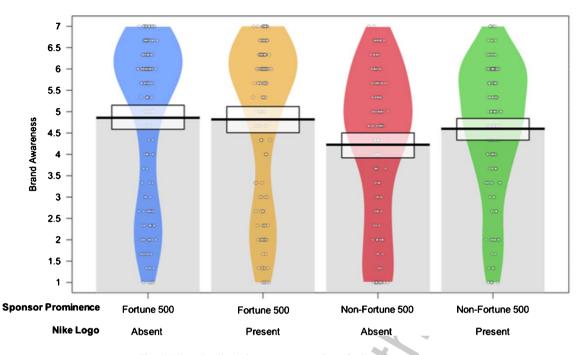


Fig. 4. Pirateplot displaying group comparisons for brand awareness.

when juxtaposed against fans shown jerseys with
brands of low prominence without the Nike logo.
Figure 5 provides a visual illustration of these
results.

460 **4. Discussion**

The NBA has become the first of the "Big Four" 461 professional leagues in the United States to adopt jer-462 sey sponsorship via their three-year pilot program. 463 Twenty out of the 30 teams have secured a sponsor 464 in the first year of its pilot program. While there is 465 little doubt that the jersey sponsorship program will 466 bring in additional revenue for teams, it is indefinite 467 what factors will influence how fans respond to jer-468 sey sponsors. In order to provide empirical evidence 469 from a consumer perspective, the current study uti-470 lized an online experiment to assess which market. 471 team-, manufacturer-, and individual-factors affect 472 fans' perceptions toward potential sponsors of their 473 favorite teams. We developed 180 press releases and 474 360 graphic renderings of jerseys with hypotheti-475 cal sponsors as research stimuli and collected data 476 from NBA fans (N=621) through a popular crowd-477 sourcing panel (i.e., Amazon Mechanical Turk). Our 478

findings provide useful evidence for decision makers to understand which aspects may meaningfully impact fans' reactions to the NBA's new sponsorship pilot program.

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Consistent with our expectation and previous research, our results indicated that avid fans showed more favorable responses on all measures than casual fans. It is not surprising that fans who feel more attached to the team are more positive toward the jersey sponsor than the less attached fans. This is in line with previous sponsorship research that team identification is an important antecedent to key sponsorship outcomes (e.g., sponsor recognition, attitude toward the sponsor, sponsor patronage; Gwinner & Swanson, 2003; Meenaghan, 2000).

In terms of the origin of fans, international NBA fans showed more positive responses than domestic fans on brand attitude, brand awareness, brand credibility, and purchase intentions. It was interesting to see a significant difference in the origin of fans, given that international NBA fans showed greater acceptance towards the jersey sponsor than the domestic fans. While we speculate that cultural differences may exist on how sports fans perceive corporate sponsors on jerseys, future research should attempt to pinpoint other conditions regarding why such differences may

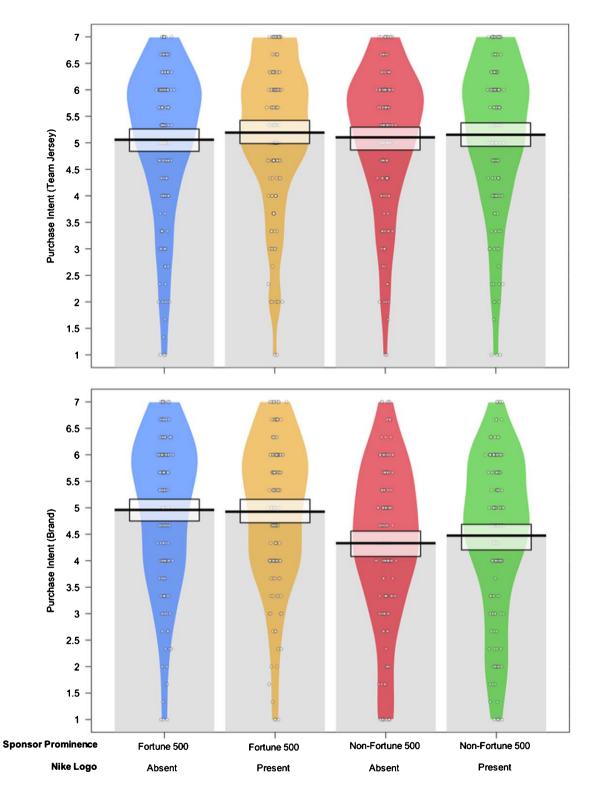


Fig. 5. Pirateplot displaying group comparisons for purchase intent of team jerseys and the manipulated sponsoring brand's product/ services.

occur (e.g., frequent exposure to sponsors through
 other global sports, such as soccer). Furthermore,
 more research should be conducted to identify if there
 is a difference among key international markets for
 the league.

Market-related factors showed mixed results. The 510 teams' market size had little effect on the perception 511 toward the sponsor. However, a sponsoring brand's 512 prominence had a significant impact on all outcome 513 measures. If the sponsoring brand was a Fortune 500 514 company (e.g., Intel), fans reported greater levels of 515 brand awareness, attitude, and credibility. Fans also 516 showed higher levels of purchase intention when the 517 sponsoring brand is a Fortune 500 company. It was 518 also interesting that when a non-Fortune 500 corpo-519 ration (e.g., Panoz) was presented as a jersey sponsor, 520 there were meaningful changes in self-reported brand 521 prominence and brand credibility. This suggests that 522 non-Fortune 500 companies can benefit from spon-523 soring an NBA team, as it can help increase the fans' 524 perception of the brand's importance and credibility. 525 We show that this boosting effect is more prevalent 526 among non-Fortune 500 brands. Marketers may find 527 this result noteworthy as a single exposure to the 528 research stimuli had an immediate boosting impact 529 among lesser known brands. By simply pairing its 530 brand with an NBA team's uniform, the sponsor was 531 able to significantly increase their brand perception. 532

Another factor that we considered was whether 533 the presence (or absence) of the manufacturer's logo 534 (Nike) had any impact on sponsor perceptions. As 535 noted earlier, we manipulated this variable since the 536 league's pilot program allowed the manufacturer logo 537 to appear on the front of jersey for the first time. 538 We sought to explore if having a "swoosh" logo on 539 the uniform affects fans' responses to a sponsor. We 540 found that the presence of Nike's "swoosh" had a 541 significant impact on increasing the reported brand 542 prominence. However, this result was not evident 543 among the other outcome measures. This specific 544 finding shows that Nike's logo on the jersey can have 545 an uplifting effect for sponsors looking to increase 546 their brand reputation. Therefore, the "swoosh" logo 547 can be a leveraging point for corporate partnership 548 managers from teams, with the evidence from our 549 findings that co-branding with Nike's logo enhances 550 brand reputation. Our findings also have implications 551 for apparel brands, as well as other sports leagues on 552 assessing the value of such partnerships, as having a 553 manufacturer logo printed on the uniform may add 554 more value to sponsors. 555

Our findings also showed that a team's success (i.e., quantified by advancing into the playoffs) in the previous season did not have any significant impact on our outcome measures. While fluctuating team performance is a unique aspect in sports marketing and analytics, our findings suggest that a team's playoff status had no effect on sponsorshiprelated outcomes. Rather, team identification may play a more prominent role in this relationship. In fact, Ngan et al. (2011) found that a team's win or loss had no effect on purchase intention of sponsors among highly identified fans. Likewise, future research might consider examining the interaction among team performance and team identification on sponsor evaluation. In addition, future research might operationalize a team's success differently (e.g., cumulative winning percentage in recent seasons) to revisit the relationship between team performance and sponsor evaluation.

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Overall, our study provides novel, empirical evidence on how NBA fans respond to jersey sponsors. By conducting an online experiment employing hypothetical scenarios and graphic renderings of jerseys bearing a sponsor patch as research stimuli, the findings of our study shed actionable insights that practitioners can use to determine precisely how fans may respond to specific market-, team-, manufacturer-, and individual-related factors. While the purpose of this study was to manipulate the sponsoring brand's prominence, we also acknowledge that adding a condition with a jersey that did not bear a patch would provide additional information on whether sponsoring a team's jersey adds value to the sponsor. Future studies might include stimuli that present jerseys without a sponsor's patch as a control condition. Another interesting avenue for future research would be to examine the value of a corporation that sponsors multiple teams in different leagues and regions. For instance, Rakuten sponsors jerseys for both La Liga's F.C. Barcelona and the NBA's Golden State Warriors. It would be interesting to examine whether having multiple jersey sponsorships impacts consumers' perceptions toward the sponsor. In doing so, future research may better inform the domain of professional sports, as well as existing literature on how prospective endeavors to implement pilot sponsorship programs in other sports leagues (e.g., the NFL, NHL, MLB) may affect fans. All things considered, we hope the present study stimulates further research efforts to expand our understanding of jersey sponsors from consumers' perspectives.

607 **References**

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AP THE BIG STORY

Golden State Warriors to land jersey sponsorship deal with Intel Corporation

By ASSOCIATED PRESS

OAKLAND (AP) – The Golden State Warriors have struck a deal with Intel Corporation, a major Fortune 500 company, to put a sponsorship logo on all player uniforms.

Intel will have its logo appear on the front of all Warriors jerseys beginning in the 2017-18 NBA season. Intel's patch will measure approximately 2½-by-2½ inches and will be included on all jerseys sold at Warriors home games, online on various sites, and in stores. The deal is expected to be mutually beneficial for both parties.



701 Appendix B. Sample graphic rendering of jersey stimuli



702 Appendix C. Measures used in the experiment

Team Identification (TI), $\alpha = 0.83$ (adapted from Wann & Branscombe, 1990)

- 1. How important to you is it that the (identified team name) win?
- 7072. How strongly do you see yourself as a fan of the708 (identified team name)?
- 3. How strongly do your friends see you as a fan ofthe (identified team name)?
 - 4. During the season, how closely do you follow the (identified team name) via ANY of the following?
 - a) in person or on television
 - b) on the radio
 - c) television news
 - d) through applications on your smartphone, tablet, or computer
 - e) online sports site or blog
 - 5. How important is being a fan of the (identified team name) to you?
 - 6. How much do you dislike the greatest rivals of the (identified team name)?
 - 7. How often do you display the name or logo of the (identified team name) at your place of work, where you live, in your car, on your cell phone, on your laptop, or on your clothing?

Brand Prominence (B_P) , $\alpha = 0.90$ (reliability assessment includes subjects' responses before and after exposure to stimuli; adapted from Han, Nunes, & Dreze, 2010)

1. How prominent is (manipulated sponsor name) asa brand?

⁷³³ Brand Favorability (B_F) , $\alpha = 0.88$ (reliability ⁷³⁴ assessment includes subjects' responses before ⁷³⁵ and after exposure to stimuli; adapted from Spald-⁷³⁶ ing, Cole, & Fayer, 2009)

1. How would you describe your overall opinionabout (manipulated sponsor name)?

739Brand Attitude (B_{att}) , $\alpha = 0.94$ (Janssen,740Fransen, Wulff, & Reijmersdal, 2016; Van Noort741& Willemsen, 2012)

- ⁷⁴² 1. I believe (manipulated sponsor name) is good.
- 2. I believe (manipulated sponsor name) is trustwor-

- 3. I believe (manipulated sponsor name) is 745 respectable. 746
- 4. I believe (manipulated sponsor name) is of high quality. 747

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- 5. I believe (manipulated sponsor name) is interesting.
- 6. I believe (manipulated sponsor name) is relevant.

Brand Awareness (B_{awr}) , $\alpha = 0.93$ (Yoo & Donthu, 2001)

- 1. I am aware of (manipulated sponsor name).
- 2. I can recognize (manipulated sponsor name).
- 3. Some characteristics of (manipulated sponsor name) come to mind quickly.

Brand Credibility (B_C) , $\alpha = 0.89$ (adapted from Newell & Goldsmith, 2001)

- 1. (Manipulated sponsor name) is sincere.
- 2. (Manipulated sponsor name) is an expert in their field.
- 3. (Manipulated sponsor name) is honest
- 4. (Manipulated sponsor name) is experienced.

Purchase Intent of Brand (PI_{br}) , $\alpha = 0.89$ (adapted from Dodds et al., 1991; Moon et al., 2008; Sweeney et al., 1999)

- 1. I will purchase (product/service) from (manipulated sponsor name).
- 2. I would recommend (manipulated sponsor name) to my friends, family, peers, and/or colleagues.
- 3. There is a strong likelihood that I would purchase (product) from (manipulated sponsor name).

Purchase Intent of Jersey (PI_{jsy}) , $\alpha = 0.93$ (adapted from Dodds, Monroe, & Grewal, 1991; Moon, Chadee, & Tikoo, 2008; Sweeney, Soutar, & Johnson, 1999)

- 1. I will purchase a (identified team name) jersey.
- 2. I would recommend a (identified team name) jersey to my friends, family, and/or colleagues.
- 3. There is a strong likelihood that I would purchase a (identified team name) jersey.

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