



Department of Economics,
University of Rochester.

COLLEGE OF LIBERAL ARTS & SCIENCES

Department of Economics
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Urbana, IL 61801-3606

Dear Members of the Search Committee,

I am writing to apply for the position of Assistant Professor of Economics as advertised on AEA JOE board. I am a microeconomist specializing in political economy and industrial organization with particular focus on political communication, timing of elections and firm pricing. I will complete my Ph.D. in Economics from the University of Illinois, Urbana-Champaign in May 2022.

I am extremely interested in joining the faculty of Rochester. As a member of the department, I will contribute to its focus on economics education, continue my research on strategic communication and firm pricing, and lead departmental service activities. I find the Rochester's tradition for teaching and its research philosophy very stimulating. I am confident that my enthusiasm for teaching, my theoretical and empirical approach to studying socially relevant topics, and my track record for collaborative work make me an excellent fit for the position in your department.

My research examines issues in political economy and industrial organization. In my job market paper, I theoretically and empirically analyze how politicians strategically vary ad content and placement to mobilize their base and demobilize the opposing one. In industrial organization, I theoretically investigate topics such as price-matching guarantees, co-location, and secondary markets. Currently, in a joint work, my co-author and I empirically measure the switching costs that emerge from airline entry in new US domestic airports. To achieve this, we use both reduced form and structural methods.

In addition, I have a strong interest in teaching, and I have experience teaching a wide range of topics. During my doctoral studies at Illinois, I was honored to be selected by my students among the top 10% of teachers in the university.

Included in my application are copies of my CV, my job market paper titled "Messaging the Bases: Tailoring Political Ads to Audiences", a statement summarizing my research agenda, and a statement affirming my commitment to diversity and inclusion. Letters in support of my application from Professors Dan Bernhardt (Chair), George Deltas, and Stefan Krasa will be sent under a separate cover.

I will be available for virtual interviews at the AEA Meeting in January 2022.. I can be reached via email at ecnstnt2@illinois.edu or by phone at +1-217-721-5834.

Please do not hesitate to contact me if there is any additional information that I can provide.

Thank you very much for your time and consideration.

Sincerely,
Evangelos Constantinou

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Research Statement

Evangelos Constantinou

I am a microeconomist with specialization in political economy and industrial organization. I work on questions on political communication, timing of elections and firm pricing. Methodologically, my research relies on both applied theory and empirical techniques — both reduced-form and structural. In this statement, I summarize my current papers on targeting of political ads and firm pricing, and discuss my ongoing research on free-riding in political advertising, sequential elections, and airline switching costs.

"Messaging the Bases: Tailoring Ads to Audiences" (Job market paper)

In my job market paper, I theoretically and empirically examine how politicians strategically vary ad content and placement to reflect the political makeup of audiences in tv shows to invoke desired electoral reactions. A correctly-placed and designed ad energizes a politician's base and depresses the opponent's. I develop a model of political advertising by extending Adams and Merrill's (2003) model of voter abstention. Politicians can select ads that affect the salience of policy positions or highlight valence (non-policy) attributes via positive ads about themselves or negative ads about the opponent. In turn, the ads a voter consumes affect their choice of preferred candidate, and their decision whether to abstain from voting due to either alienation or indifference. In the former, the cost of voting exceeds the utility the voter derives from voting for their preferred candidate, and in the latter the utility difference between the candidates is less than the cost of voting. I theoretically characterize how the optimal composition of ads varies with audience demographics. This contributes to the political advertising literature by allowing politicians to tailor messages that target specific components of the voters' utility given the latter's ideology and margin of abstention.

I test the predictions of the model using the U.S. gubernatorial and presidential elections in 2008 and 2012. In order to identify the types of ads used on different tv shows, I transcribe the different ads in states with competitive contests, and use the texts to classify each ad as either policy, positive valence or negative valence ad. Specifically, I split each text into individual statements, and assign a subject and tone category to each statement based on its content. Next, I compute the length of each statement, which I use to calculate the total size of each subject and tone category in each ad. Subject categories are classified as either policy or valence, and the total size of the different subject and tone categories determine the type of the ad. I combine these data with viewer demographic and polling data to uncover empirical findings consistent with the theory.

First, I document that politicians simultaneously use policy, positive valence (i.e., emphasize own positive traits), and negative valence ads (i.e., emphasize opponent's negative attributes), which suggests that each type of ad is important for a campaign. Then, I present evidence of significant variation in the demographic makeup of viewers of the different tv shows. Thus, a sorting of viewers into tv shows is present which allows politicians to target demographics and voters with tailored content.

Consistent with the model, I find that opposing candidates target the same voters with different types of ads. Moreover, opposing candidates target different (and more polarized) audiences with policy ads, while positive valence ads are mostly targeted to a candidate's alienated base. In

contrast, the opponent's base is targeted with attacks against their preferred candidate. Finally, I present evidence suggesting that as the ideological difference between opposing candidates widens, candidates increase targeting of policy and positive valence ads to their base.

"The Price-Matching Dilemma" with Dan Bernhardt (*International Journal of Industrial Organization*, 2018)

In this paper, we characterize when strategic considerations of stores to match prices set by rivals on branded goods — common products across rivals — devolve into a prisoner's dilemma. We consider a linear spatial economy with rival stores located at each end of the line. The consumers are located between the two stores and incur a travel cost to visit a location. Stores offer generic products, which creates incentives to raise the prices of branded goods that compete with the store's generics in order to shift consumer purchases toward more profitable generics. We model the store competition as a two-stage game. In the first stage, each store can initiate a price-matching guarantee policy that automatically matches the prices of its branded goods to the rival's price, if the latter is lower. In the second stage, the stores engage in price competition. We demonstrate that price-matching guarantees commit stores not to set high prices for branded goods, thereby attracting more shoppers. We characterize the optimal price-matching policy based on consumers' shopping price-elasticities. The shopping price-elasticities are inversely related to travel cost, and capture the extent to which consumers choose stores based on prices rather than location. When consumer choice of where to shop is sufficiently price elastic, then in the unique equilibrium, a prisoner's dilemma results in which stores have a dominant strategy to price-match. For intermediate shopping elasticities, two equilibria exist—a low profit equilibrium in which all firms price match, and a high profit equilibrium in which no firm does. Only when travel is sufficiently costly is the high profit, no-price matching equilibrium unique.

"When Do Co-Located Firms Selling Identical Products Thrive?" with Dan Bernhardt and Mehdi Shadmehr (Forthcoming at *Journal of Industrial Economics*)

In this paper, we theoretically characterize how price competition between co-located (cluster) firms, which hinges on the share of comparison shoppers that go to the cluster, interacts with the price-elasticity of the consumers' decisions of where to shop to determine the profits of isolated and co-located firms. We consider a linear spatial economy with two stores co-located at zero, and a monopolist located at one. Consumers visit one location; comparison shoppers visit all stores in the location, and non-shoppers visit only one store (Rosenthal (1980), Varian (1980)). We prove that co-located firms thrive when there are some shoppers, but not too many. Without any shoppers, all stores set the monopoly price, consumers visit the closest location and co-located stores earn half the monopolist profit. Introducing shoppers has two effects on cluster store profits. The direct effect is to reduce profit since co-located stores compete on price. The indirect effect is that price competition draws more consumers to the cluster and away from the monopolist. With a few shoppers, distance is the key factor for choosing which location to visit, and the marginal consumer has similar travel costs for the two locations. Thus, the measure of consumers drawn to the cluster by the price competition is initially very elastic, which increases the consumer base of the cluster consumer base by enough to offset for the lower prices and increase profits. If, instead, the number of shoppers is high, then the price competition drives prices to marginal cost, and profits to zero. Finally, we endogeneize location choice on a circle by stores and prove that for moderate travel costs we can derive an equilibrium with two co-located stores and a maximally separated monopolist. For sufficiently low travel costs, all stores co-locate. In contrast, if travel costs are sufficiently high, then all stores maximally separate.

Future research agenda

My future research agenda is in the fields of Political Economy and Industrial Organization. Next, I summarize four of my ongoing projects in the two fields.

In *Candidate Advertising Free Riding and Party Solutions*, I exploit that media markets and station reception cross multiple electoral district boundaries to ask whether neighboring candidates of the same party free ride of each others ads, and whether parties help ameliorate such concerns. For this project, I use the Wisconsin Advertising Project and Wesleyan Media Project data on local tv ads for the 2008, 2010 and 2012 U.S. election cycles. I focus the analysis on federal general elections for the U.S. House and Senate. Treated candidates are identified in two ways. Under the first one, I consider as treated the candidates in media markets which are comprised of counties from more than one state. For the second definition I use a data driven methodology: a candidate is labeled as treated if they advertised in the same station as another candidate of the same party for the same office, but from a different district. In a preliminary analysis, I find that a variation exists between offices and election years, but parties and political action committees (pacs) are 10 – 15 percentage points more likely to sponsor ads for the treated candidates. Some candidates are treated in one media market but not in another. I am currently testing how sponsorship of ads by parties and pacs varies for these candidates between media markets. Moreover, I plan to examine how ideological differences between candidates who advertise in the same space affects the party’s decision, first, whether to sponsor an ad, and second, what type of ad to sponsor. Ideologically similar candidates can either free ride of off each other’s ads, or they might complement each other resulting in more ads sponsored by candidates. Ideologically distant candidates might advertise more to separate themselves, or to avoid advertising expecting the party to step in. With ideologically similar candidates, who free ride, I expect the party to sponsor more policy ads. In contrast, if the party sponsors ads for ideologically distant candidates, I expect those ads to be more generic in an effort to boost both candidates. The candidate ideological scores will come from Bonica’s (2016) Database on Ideology, Money in Politics, and Elections (DIME).

In *Endogenous Order with Sequential Elections* with George Deltas, we investigate the strategic considerations stemming from the timing of primary elections. We consider a framework with aggregate uncertainty about the ideology distribution of voters, and idiosyncratic uncertainty within electoral districts about the ordering of candidates on non-policy dimensions. We consider the effects of idiosyncratic uncertainty on endogenous voting order, and the effect of that order on outcomes. We also characterize conditions such that election outcomes are independent of voting order. We collected data from the US primary elections between 1980-2016, which we will use to test our theory.

In *Name-Change Fees, Scalpers, and Secondary Markets*, I consider a monopolist provider of a service, where consumers enjoy the service only if they have ticket (e.g., concerts, airline flights, and hotel rooms). The monopolist can set a name-change fee to allow holders of tickets to transfer ownership of their tickets to other consumers. I identify the conditions making it optimal to use name-change fees such that the secondary market is active. I show how this reduces demand uncertainty and alleviates price rigidity.

In *Airline Entry and Switching Costs* with George Deltas, we use the Origin and Destination survey (DB1B) to provide a measure of switching costs in US domestic airline markets. We leverage airline entry into new airports that connect them with airports that the airline already has presence. We construct our measure of switching costs by exploiting the relative flow of passengers based on the direction of the route (i.e., new airport as origin vs old airport as origin). Then, we consider a discrete choice model to examine the factors affecting these costs.