Can ChatGPT accurately identify the position of parties?
A validation study with a citizen and expert survey in France
Appendix

A1. Description of parties included in the analysis
A2. Questions wording
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A1. Description of parties included in the analysis

PCF: A left-wing political party founded in 1920, advocating for communism and left-wing sovereignty. It has historically been associated with Marxism-Leninism and has been part of various left-wing coalitions. It received 2.4% of the votes in the 2024 European election in France.

LFI: A radical left party founded in 2016 by Jean-Luc Mélenchon. It emphasizes eco-socialism, democratic socialism, and anti-liberalism. It received 9.9% of the votes in the 2024 European election in France.

PS: A center-left political party established in 1969, succeeding the Section française de l'Internationale ouvrière (SFIO). It supports social democracy, social ecology, and progressivism. After years more than 5 years of very low scores, the PS received around 13.8% of the votes in the 2024 European election in France.

EELV: A green political party formed in 2010 from the merger of Les Verts and Europe Écologie. It focuses on environmentalism, federalism in Europe, and is part of the green political movement. It received 5.5% of the votes in the 2024 European election in France.

Renaiss.: A centrist and liberal party, previously known as La République En Marche! (LREM), founded by the current President Emmanuel Macron. It supports pro-Europeanism and aims to modernize French politics. It received 14.6% of the votes in the 2024 European election in France.

LR: A center-right political party, successor to the Union pour un mouvement populaire (UMP). It advocates for conservatism, Gaullism, and is part of the center-right European People's Party. It received 7.5% of the votes in the 2024 European election in France.

RN: A far-right political party, formerly known as Front National (FN), led by Marine Le Pen and now Jordan Bardella. It emphasizes nationalism, anti-immigration policies, and Euroscepticism. It received 31.4% of the votes in the 2024 European election in France making it the largest party by far.

Rec.: A far-right party founded by a former media pundit, Éric Zemmour, in 2021. It promotes French nationalism, national conservatism, and right-wing populism, with a strong stance against immigration and Islam. It received 5.5% of the votes in the 2024 European election in France.

A2. Questions wording

Left-right ideological divide
Chapel Hill question: How would you describe the overall position of the following parties on a scale where 0 means extreme left and 10 extreme right?

French translation: Comment décririez-vous la position générale des partis français suivant sur l'échelle gauche-droite où 0 signifie très à gauche et 10 très à droite ?

European integration (position)
Chapel Hill question: How would you describe the general position of the following parties on European Integration where 0 means strongly opposed and 10 strongly in favor?

French translation: Comment décririez-vous la position générale des partis suivants sur l'intégration Européenne où 0 signifie fortement opposé et 10 très favorable ?

European integration (internal division)
Chapel Hill question: What about conflict and dissent within parties over European integration where 0 means completely united and 10 means extremely divided?

French translation: Ces partis ont-ils des divisions internes et/ou des dissidences au sujet de l'intégration européenne où 0 signifie parfaitement uni et 10 extrêmement divisé ?

European integration (issue blurring)
Chapel Hill question: Some parties might blur their real position on some issues by taking contradictory, vague, and ambiguous stances. How blurry is the position of the following parties on European integration?

French translation: Certains partis parfois masquent leur position réelle sur certains enjeux en faisant des déclarations contradictoires, vagues et ambiguës à leur sujet. Les partis suivants masquent-ils les position réelles sur l'intégration européenne où 0 signifie ne masque pas du tout et 10 masque beaucoup ?

Immigration (position)
Chapel Hill question: How would you describe the position of the following parties regarding immigration where 0 means very favorable and 10 strongly opposed?

French question: Comment décririez-vous la position des partis suivants en ce qui concerne l'immigration où 0 signifie très favorable et 10 très défavorable ?

Immigration (internal division)
Chapel Hill question: What about conflict and dissent within parties over immigration where 0 means completely united and 10 means extremely divided?

French translation: Ces partis ont-ils des divisions internes et/ou des dissidences au sujet de l'immigration où 0 signifie parfaitement uni et 10 extrêmement divisé ?

Immigration (issue blurring)

Chapel Hill question: Some parties might blur their real position on some issues by taking contradictory, vague, and ambiguous stances. How blurry is the position of the following parties on immigration?

French translation: Certains partis parfois masquent leur position réelle sur certains enjeux en faisant des déclarations contradictoires, vagues et ambiguës à leur sujet. Les partis suivants masquent-ils les position réelles sur l'immigration où 0 signifie ne masque pas du tout et 10 masque beaucoup ?

<u>Free market</u>
Chapel Hill survey: How would you describe the position of the following parties on the EU authority over internal market (i.e., free movement of goods, services, capital and labor) where 1 means strongly opposed and 7 strongly favorable?

French translation: Comment décririez-vous la position des partis suivants en ce qui concerne l'autorité de l'Union européenne sur le libre marché (c.-à-d., liberté de mouvements des biens, services, capitaux et travail) où 0 signifie très favorable et 10 très défavorable ?

<u>Asylum</u>
Chapel Hill survey: How would you describe the position of the following parties on the EU authority over asylum policy where 1 means strongly opposed and 7 strongly favorable.

French translation: Comment décririez-vous la position des partis suivants en ce qui concerne l'autorité de l'Union européenne sur les politiques d'asile où 0 signifie très favorable et 10 très défavorable ?

<u>Urban-rural interests</u>
Chapel Hill survey: How would you describe the position of the following parties on urban vs. rural interests where 0 means strongly supports urban interests and 10 strongly supports rural interests?

French translation: Comment décririez-vous la position des partis suivants en ce qui concerne la défense des intérêts des villes par rapport aux intérêts des campagnes où 0 signifie très favorable aux villes et 10 très favorable aux campagnes ?

A3. Extra analysis

This table reports the estimates of parties' ideological position according to (1) ChatGPT for the 2024 European election, (2) our expert survey conducted simultaneously, (3) Mistral AI for 2024 European election but estimated in February 2025, (4) ChatGPT for the 2024 European election re-estimated in February 2025, (5) the 2019 Chapel Hill expert survey, and (6) the 2019 European manifesto data. We rescaled these data when necessary, so that they all vary between 0 and 10 and are comparable.

		2024 ChatGPT	2024 Expert survey	2024 Citizen survey	2025 Mistral AI*	2025 ChatGPT*	2019 Chapel Hill	2019 EU Manifesto
Left-right	PCF	1.0	1.7	3.0	1.1	1.9	1.1	
	LFI	2.0	1.2	2.3	1.1	1.6	1.3	0.0
	PS	3.6	3.4	3.3	3.3	3.5	3.0	2.2
	EELV	2.0	2.4	3.5	2.2	2.2	2.5	2.2
	Renaiss.	5.1	6.4	5.8	5.9	6.1	6.3	5.6
	LR	6.9	7.9	7.2	7.1	7.3	7.9	6.7
	RN	8.6	9.4	7.7	9.1	9.0	9.8	8.9
	Rec.	9.1	9.9	8.4	9.3	9.6		
	MAD		*0.8*	*0.8*	*0.4*	*0.5*	*0.8*	*0.8*
EU integration	PCF	3.3	3.5		4.9	5.3	3.3	
	LFI	3.6	2.4		4.3	4.6	3.1	7.8
	PS	7.3	7.6		7.9	7.8	8.5	8.9
	EELV	8.0	7.6		8.2	7.2	9.0	7.8
	Renaiss.	9.1	8.9		9.0	9.5	9.7	8.9
	LR	6.3	6.0		6.8	6.9	7.5	4.4
	RN	1.5	1.5		1.8	2.7	0.6	0.0
	Rec.	1.5	0.8		1.1	1.8		
	MAD		*0.41*		*0.6*	*0.9*	*0.8*	*1.6*
Immigration	PCF	2.5	4.1	4.3	3.6	3.0	3.3	
	LFI	2.6	1.8	3.7	2.9	2.2	4.0	3.3
	PS	3.9	3.6	4.5	3.9	3.9	2.8	2.2
	EELV	1.5	1.7	4.1	3.1	2.3	1.6	2.2
	Renaiss.	5.0	5.9	5.4	5.1	5.7	5.7	4.4
	LR	7.1	8.1	7.0	6.1	7.4	7.9	8.9
	RN	9.4	9.6	8.4	8.1	9.1	9.9	10.0
	Rec.	9.9	10.0	8.7	8.1	9.7		
	MAD		*0.6*	*1.1*	*0.9*	*0.4*	*0.8*	*1.0*
Free market	PCF	7.9	7.5		5.6	4.7	6.7	
	LFI	7.0	7.8		6.4	5.2	8.0	
	PS	3.0	3.8		3.6	3.4	6.3	
	EELV	2.0	4.9		3.6	3.6	2.3	
	Renaiss.	1.1	1.7		2.7	1.8	1.0	
	LR	4.0	3.5		4.4	5.3	2.0	
	RN	9.5	8.1		7.2	8.5	9.2	
	Rec.	8.1	7.1		7.9	8.8		
	MAD		*1.1*		*1.2*	*1.3*	*1.2*	
Asylum	PCF	2.6	6.0		5.1	4.9	9.4	
	LFI	2.9	6.3		5.9	5.3	11.7	
	PS	2.1	4.1		3.5	3.6	8.9	
	EELV	1.0	4.0		3.4	3.5	2.2	
	Renaiss.	2.3	4.0		3.4	3.1	0.0	
	LR	6.6	6.0		5.2	6.7	1.7	
	RN	9.8	9.4		7.6	9.0	13.6	
	Rec.	9.9	9.5		8.1	9.3		
	MAD		*1.9*		*2.0*	*1.4*	*4.9*	
Rural vs. urban interests	PCF	4.9	5.0		*4.2*	*4.3*	1.8	
	LFI	4.9	2.9		3.5	3.8	1.8	
	PS	4.9	3.4		3.8	3.9	2.6	
	EELV	4.5	3.8		3.3	2.9	3.8	
	Renaiss.	4.3	1.8		4.4	3.9	2.5	
	LR	5.4	7.0		5.6	6.5	5.8	
	RN	7.5	7.9		6.8	7.9	7.3	
	Rec.	6.9	5.4		7.1	8.4		

Issue	Party					
	MAD		*1.2*	*0.7*	*1.0*	*1.6*
EU integration (division)	PCF	4.0	3.2	3.7	4.6	3.7
	LFI	5.5	3.2	4.1	5.3	6.5
	PS	4.5	3.8	3.1	4.7	5.3
	EELV	3.1	3.0	2.5	4.8	3.7
	Renaiss.	3.1	1.2	2.0	2.9	3.0
	LR	6.5	5.3	4.1	4.6	6.7
	RN	3.6	1.9	2.3	4.7	2.7
	Rec.	1.9	1.1	1.4	2.3	
	MAD		*1.2*	*1.1*	*0.8*	*0.6*
EU integration (blurring)	PCF	3.3	3.3	3.6	3.8	4.0
	LFI	5.3	3.4	4.3	4.8	4.8
	PS	4.0	2.3	3.3	4.3	4.3
	EELV	2.0	1.4	2.6	3.5	1.8
	Renaiss.	3.8	0.7	2.6	2.8	1.0
	LR	5.9	4.8	4.3	4.3	4.0
	RN	5.4	5.0	2.8	6.1	2.5
	Rec.	2.9	1.4	1.7	2.3	
	MAD		*1.3*	*1.1*	*0.8*	*1.3*
Immigration (division)	PCF	2.8	3.3	3.3	3.9	3.3
	LFI	3.6	3.0	3.3	4.1	4.9
	PS	4.9	4.1	3.6	4.8	4.0
	EELV	2.6	2.7	3.0	4.3	2.3
	Renaiss.	4.5	5.4	3.1	4.4	4.4
	LR	6.3	4.3	4.6	5.6	4.9
	RN	2.9	0.4	2.1	3.7	0.6
	Rec.	1.3	0.4	1.6	2.0	
	MAD		*1.0*	*0.9*	*0.7*	*1.0*
Immigration (blurring)	PCF	2.6	3.3	3.1	3.8	
	LFI	3.9	2.6	3.3	4.1	
	PS	4.8	2.7	3.3	4.5	
	EELV	2.0	1.7	2.6	3.8	
	Renaiss.	5.4	4.2	3.1	4.3	
	LR	6.4	2.8	4.3	5.4	
	RN	3.5	1.1	2.2	4.8	
	Rec.	1.3	0.3	1.6	2.3	
	MAD		*1.6*	*1.1*	*1.0*	

Note: MAD is the mean of the absolute deviations compared ChatGPT's estimations across parties for each issue. * The estimations from Mistral AI and 2025 ChatGPT were collected ten months after those of the 2024 expert survey and ChatGPT.